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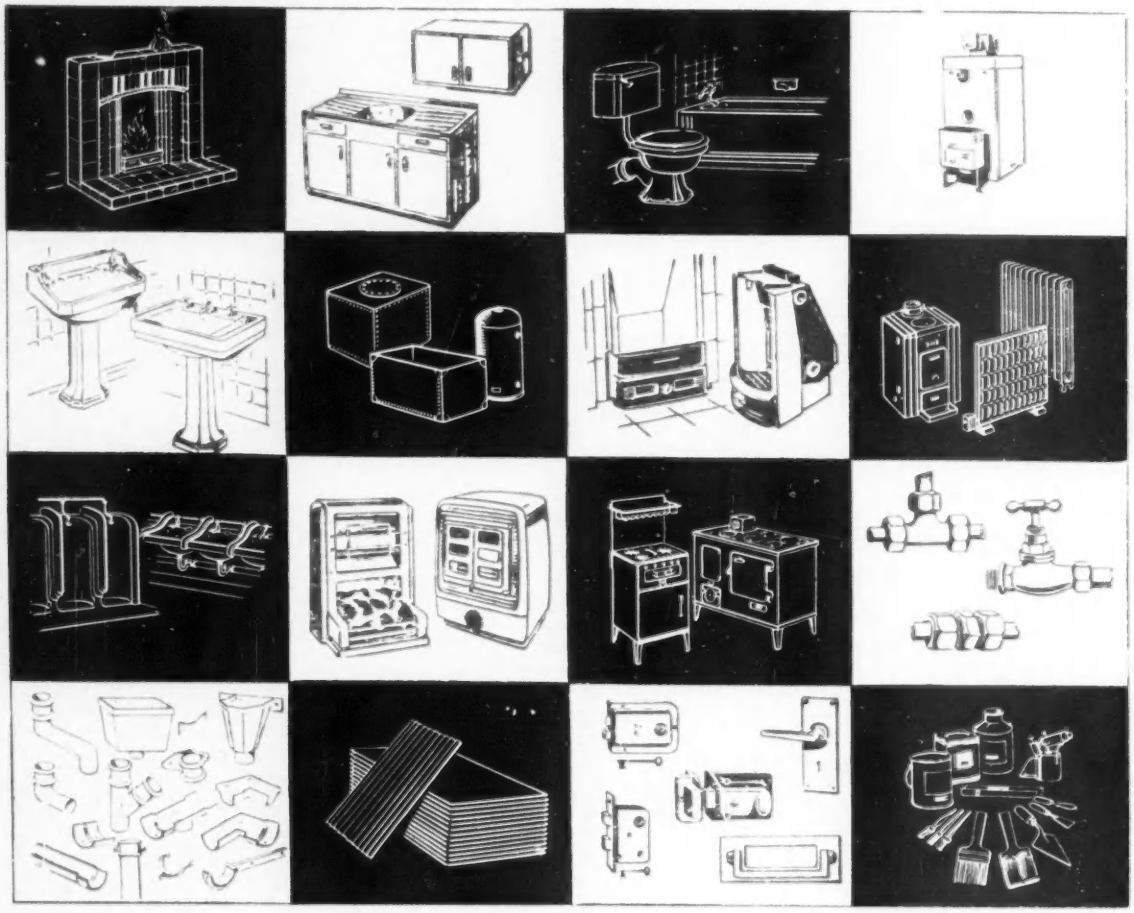

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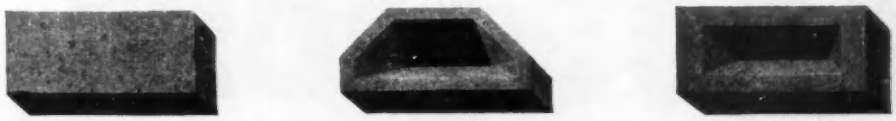

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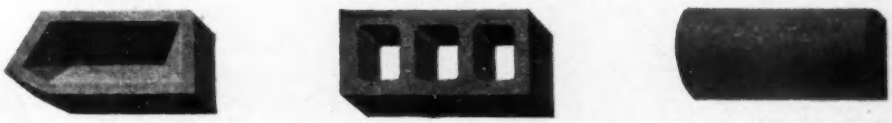

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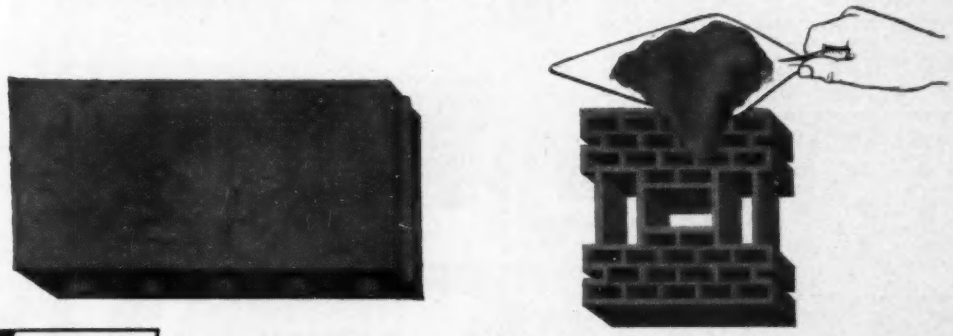

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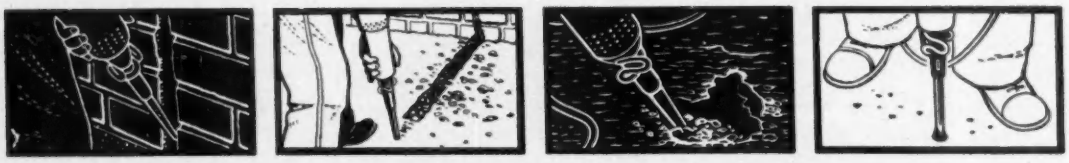

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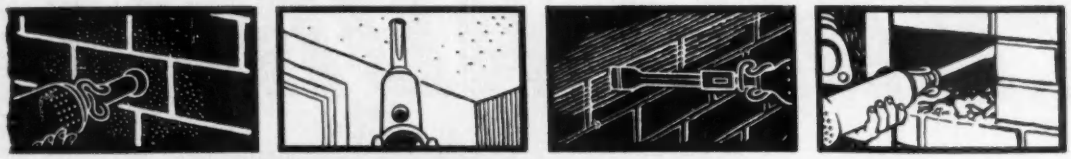

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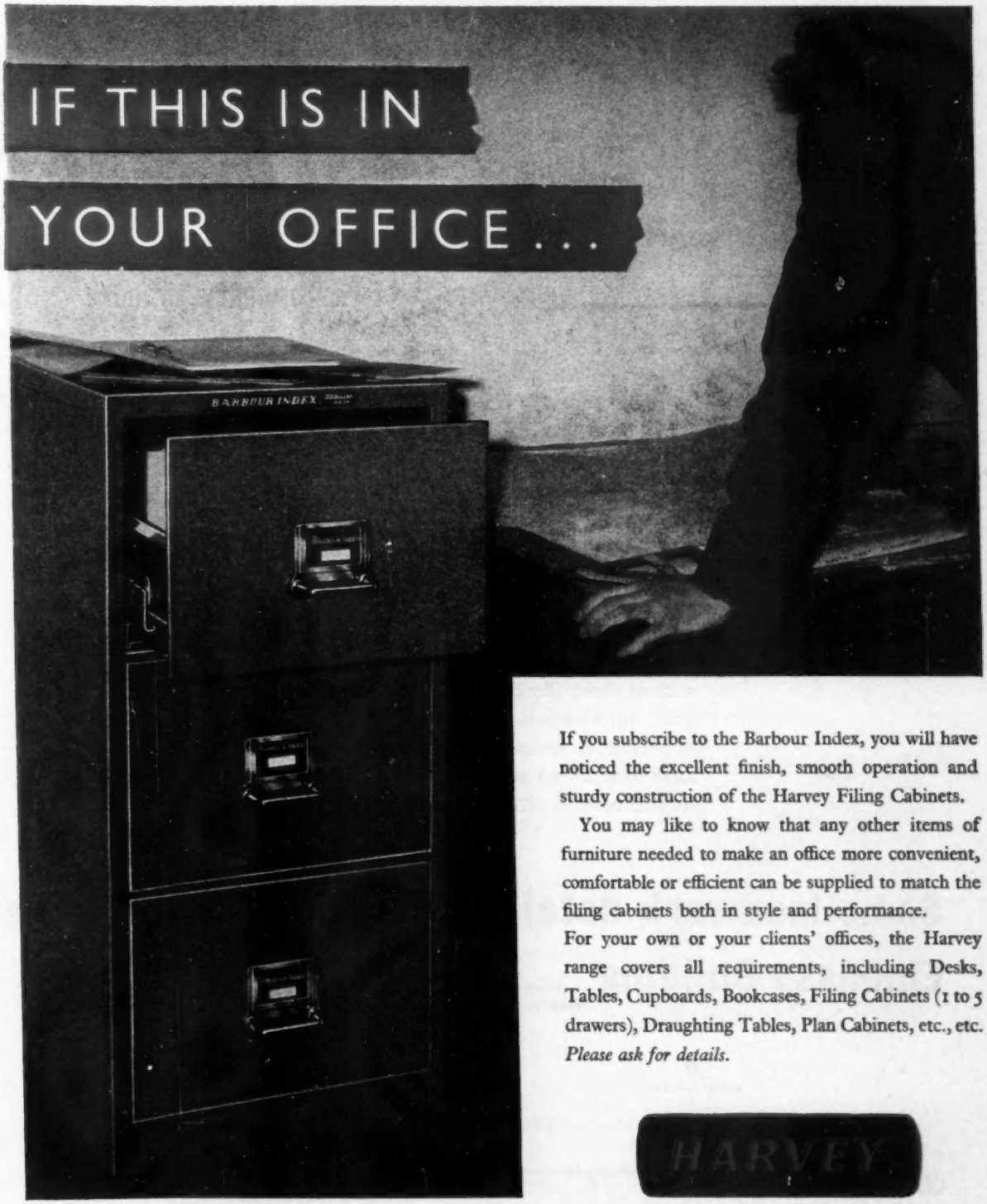

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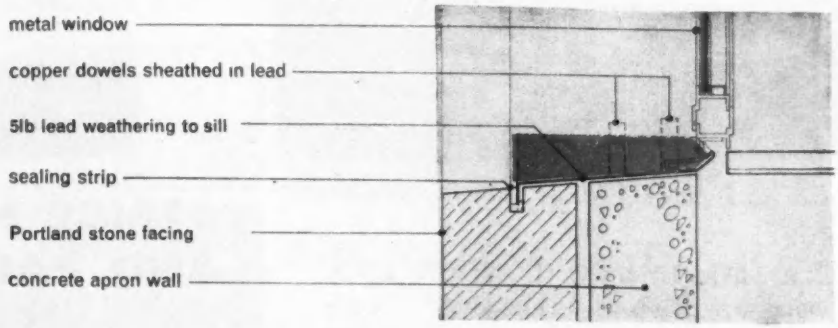

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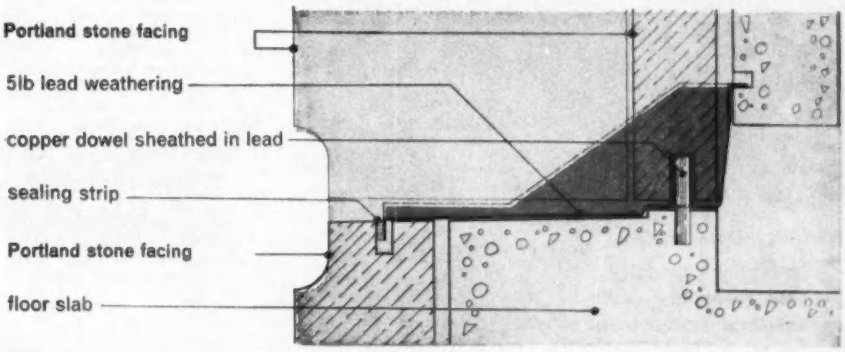
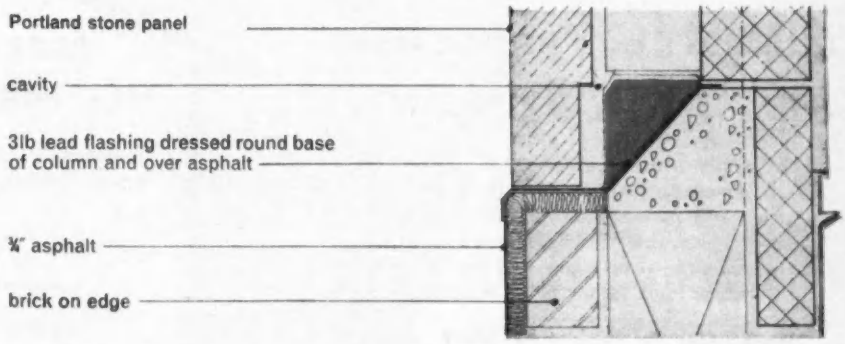
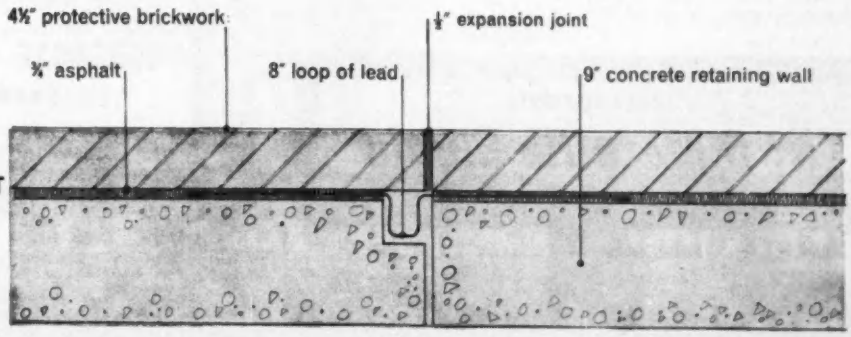
SECTION OF LEAD WEATHERING AT STRING COURSE



SECTION THROUGH FLASHING AT FOOT OF EXTERNAL WALL TO PENTHOUSE



HORIZONTAL SECTION THROUGH VERTICAL SETTLEMENT JOINT



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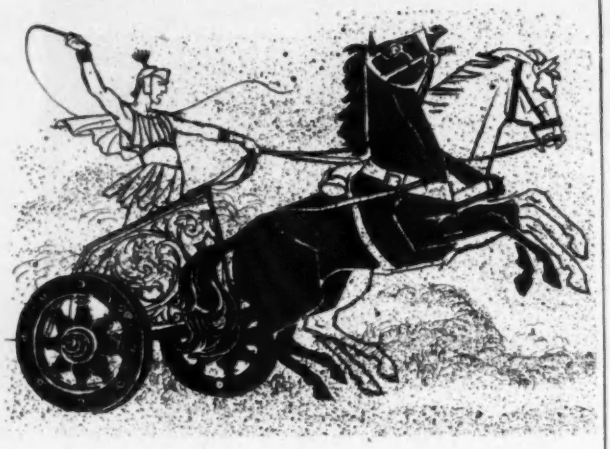
Dust Beneath The Chariot Wheels?



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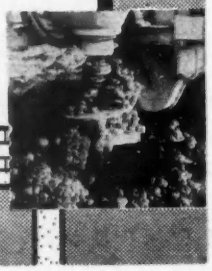

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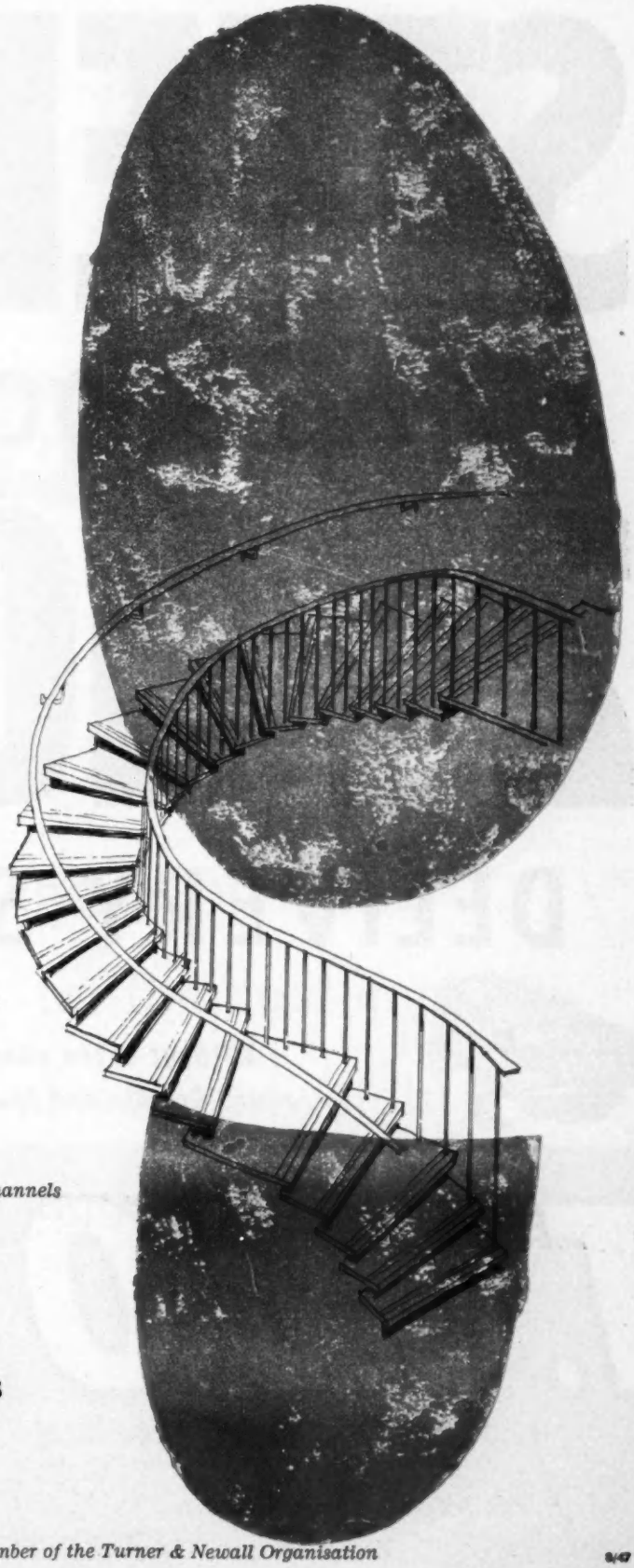

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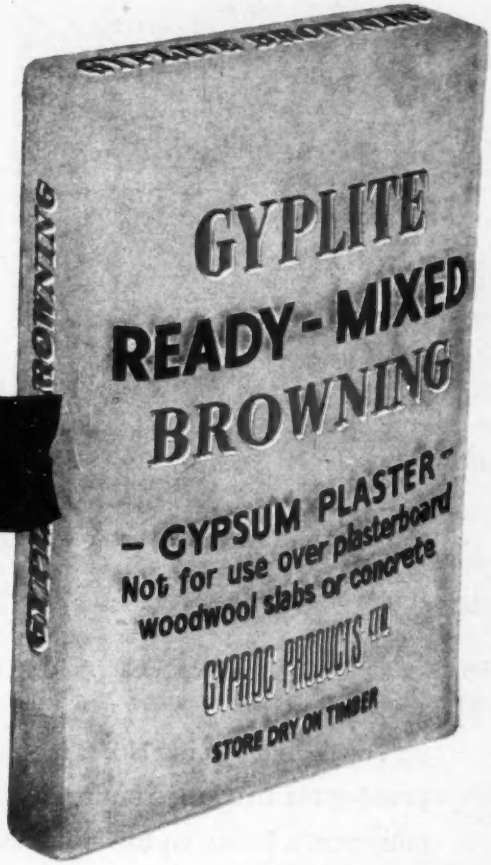

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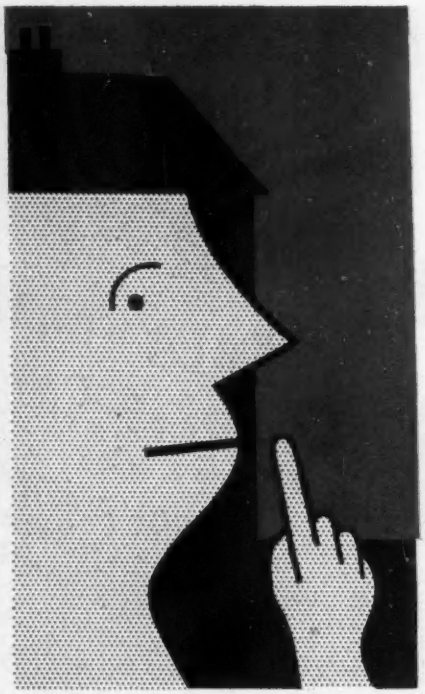

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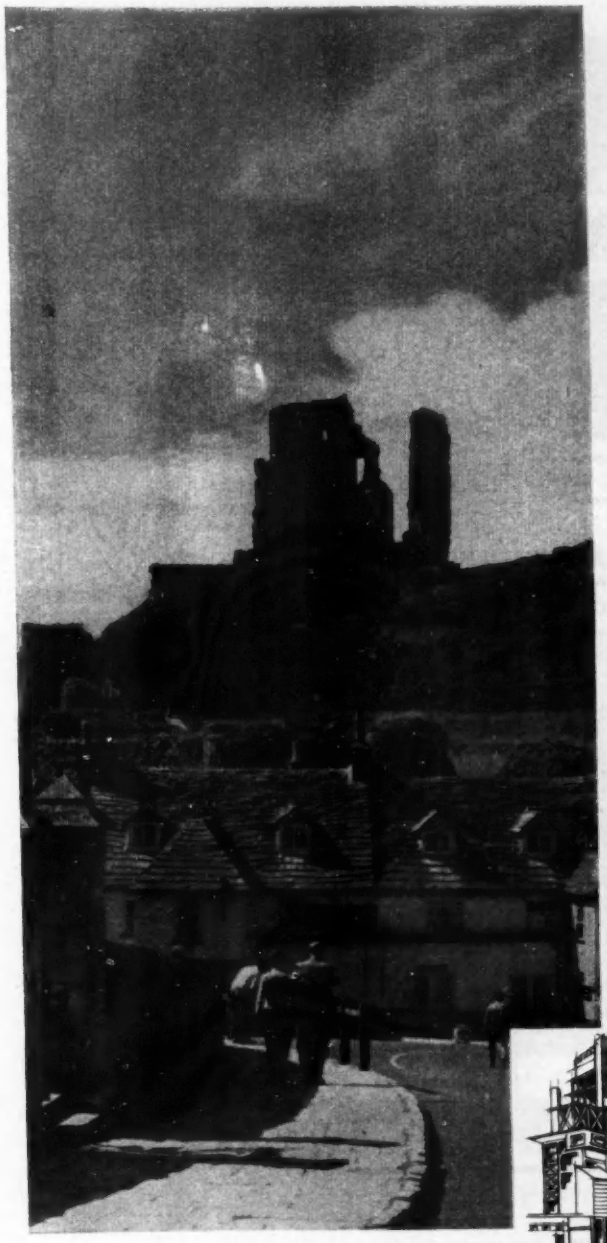

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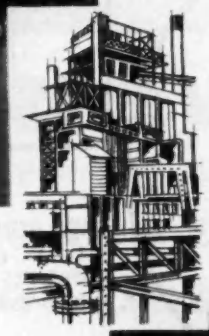

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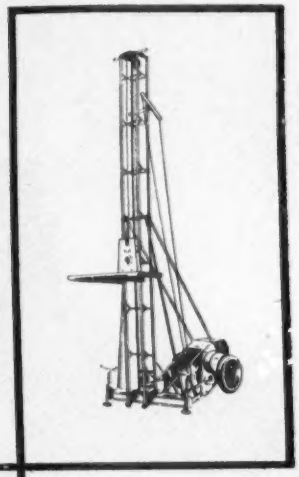

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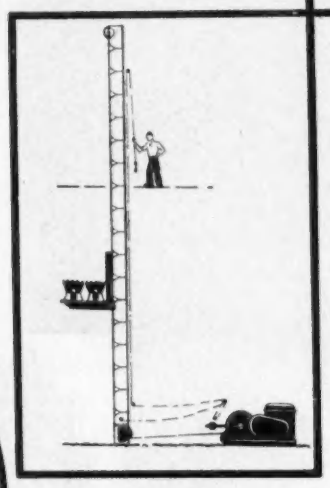

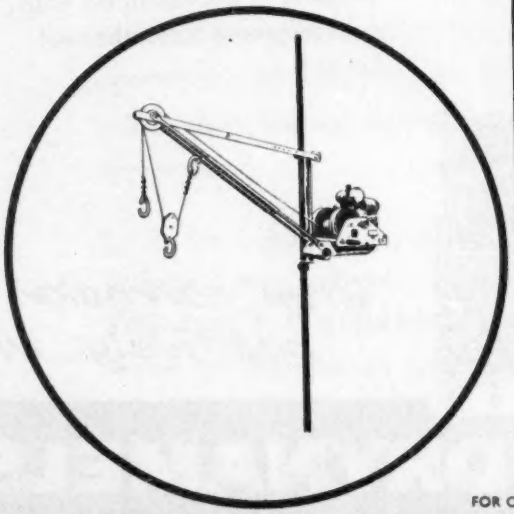

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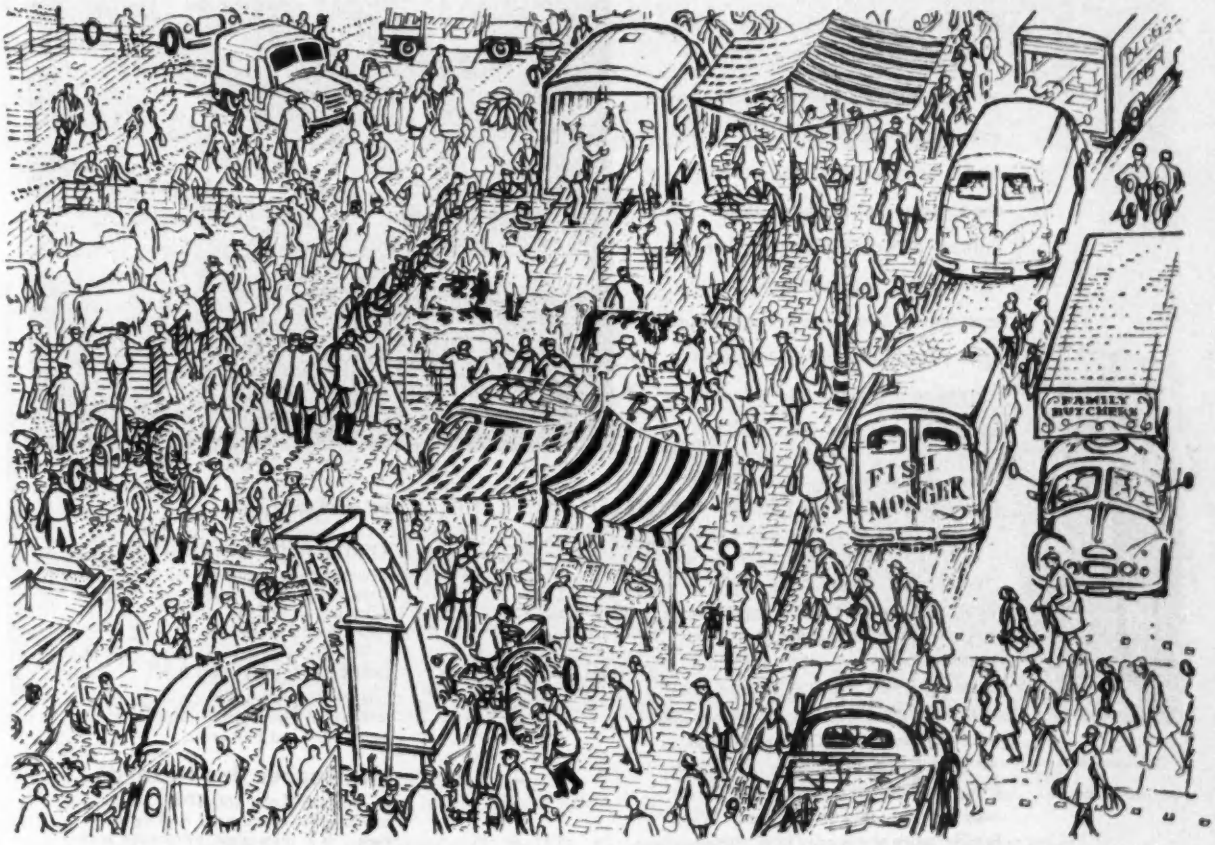

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it gives more shadow free light at working level

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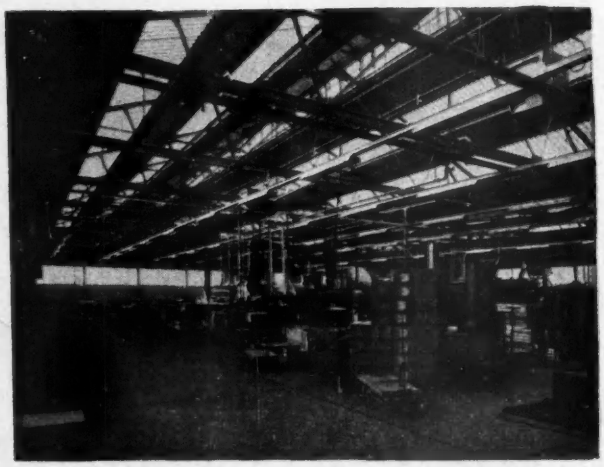

plus complete immunity fire spread

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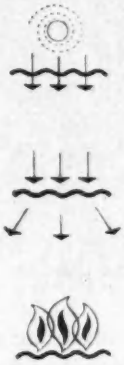

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Corroglaze is unaffected by fumes, does not discolour and maintains its efficiency under the most adverse atmospheric conditions.

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corroglaze

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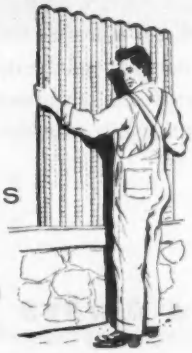

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Below: At the Shell-Mex and B.P. Ltd. depot at London Airport.

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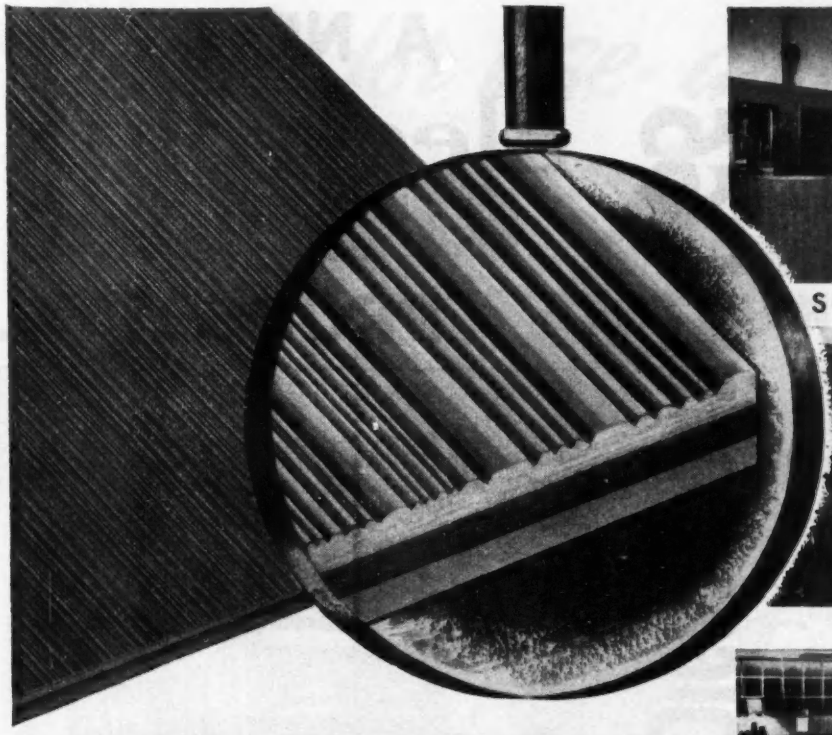

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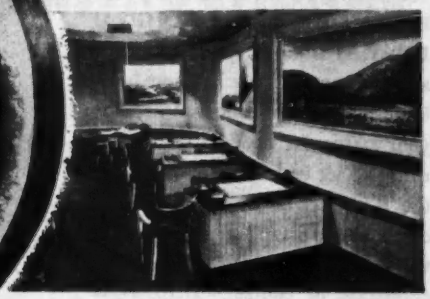

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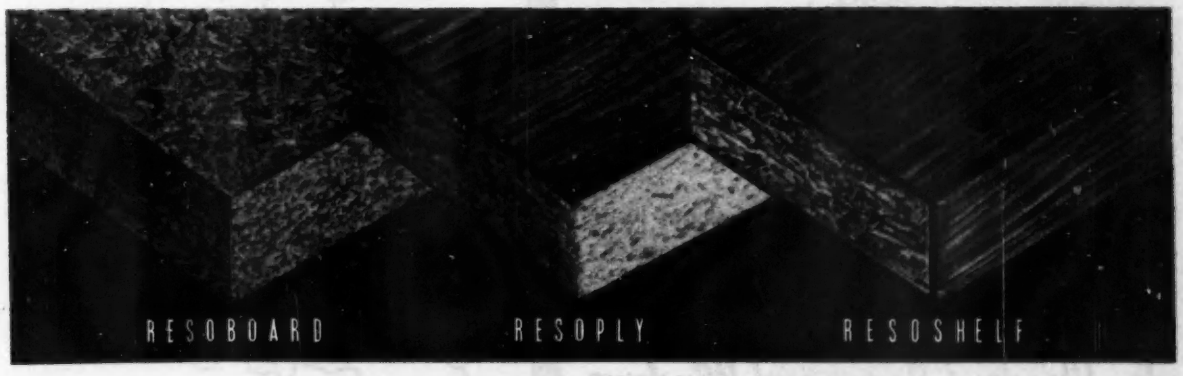

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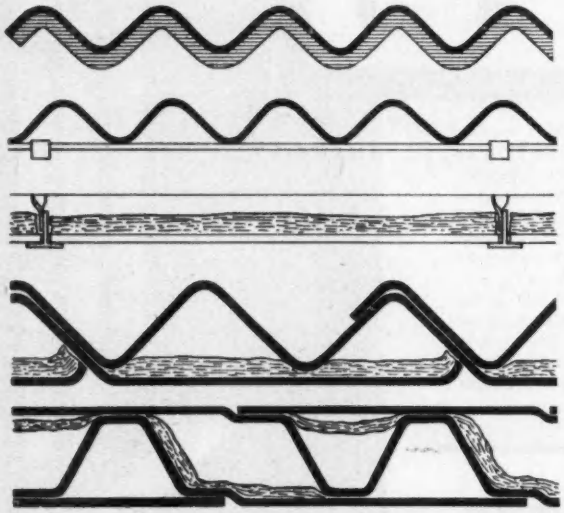

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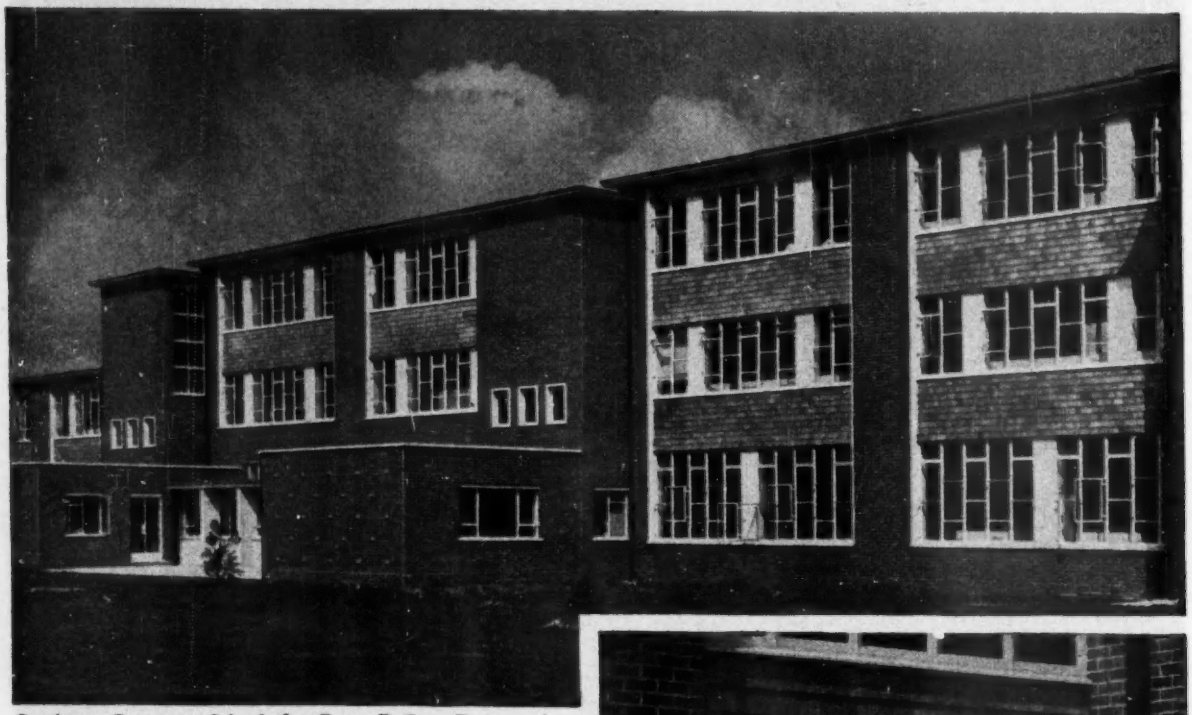

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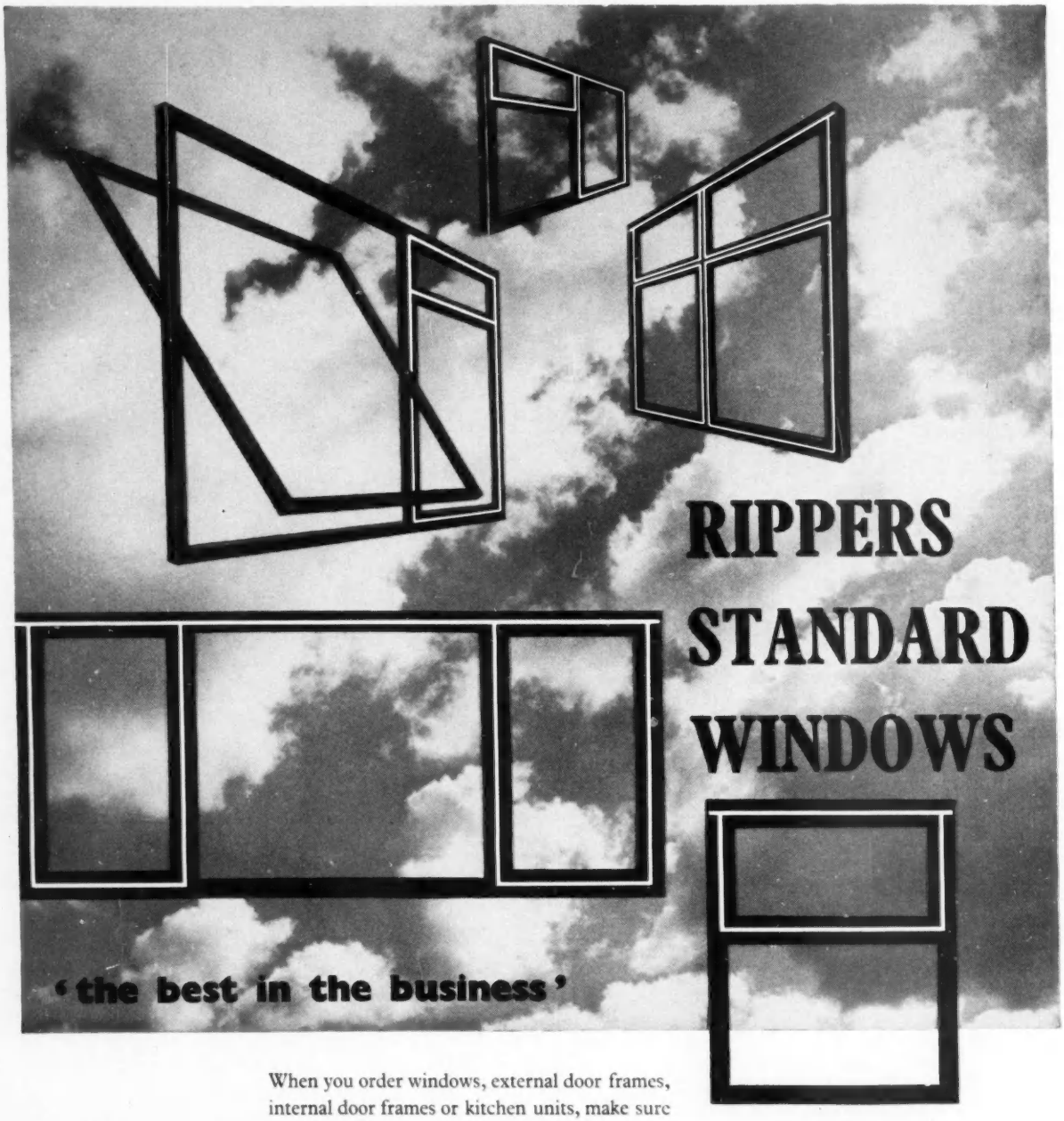

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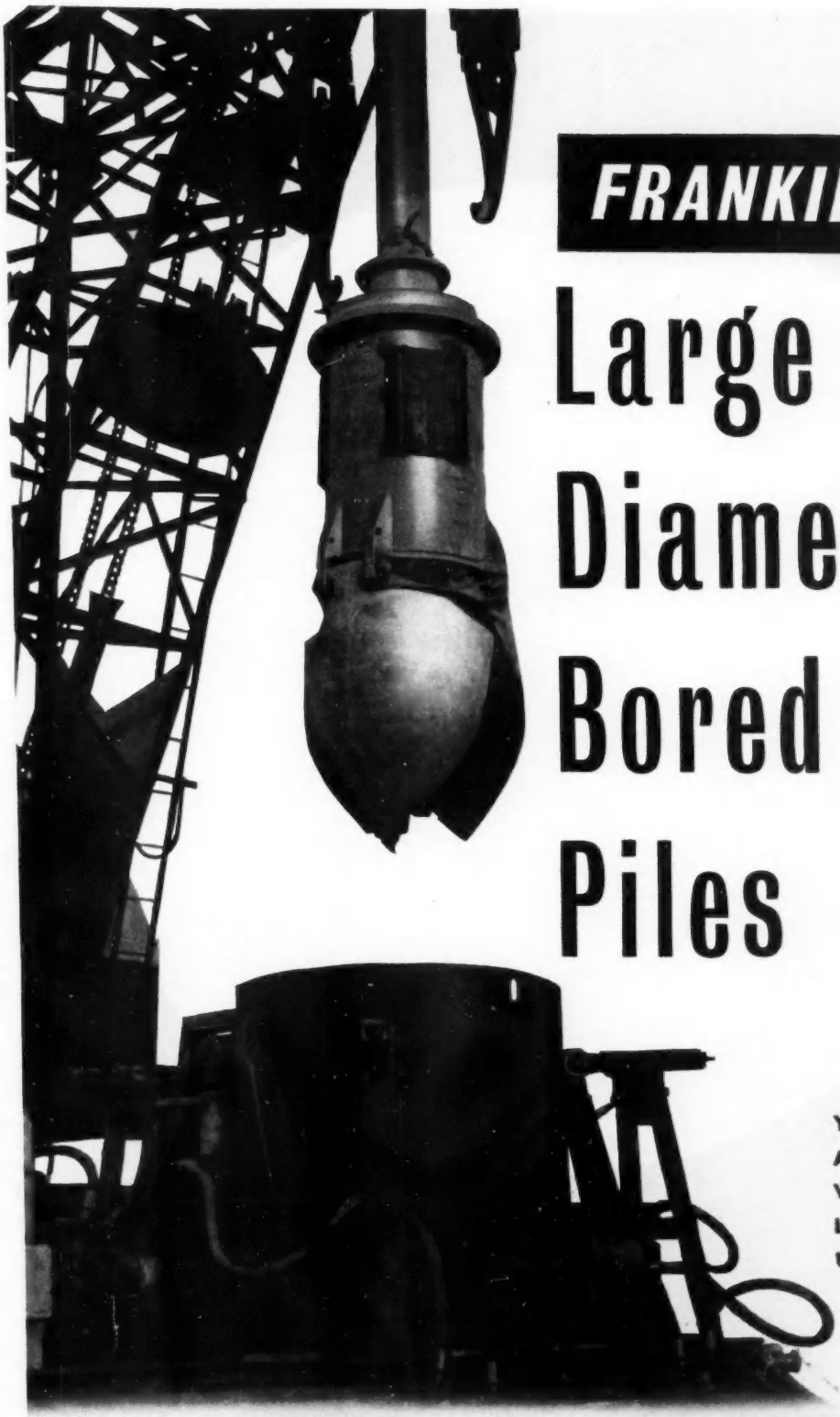

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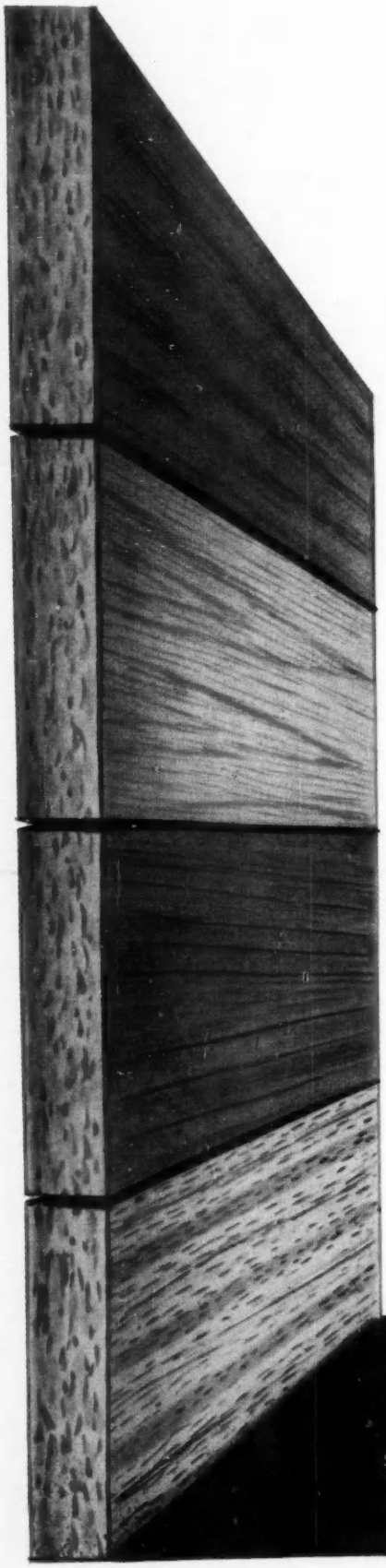

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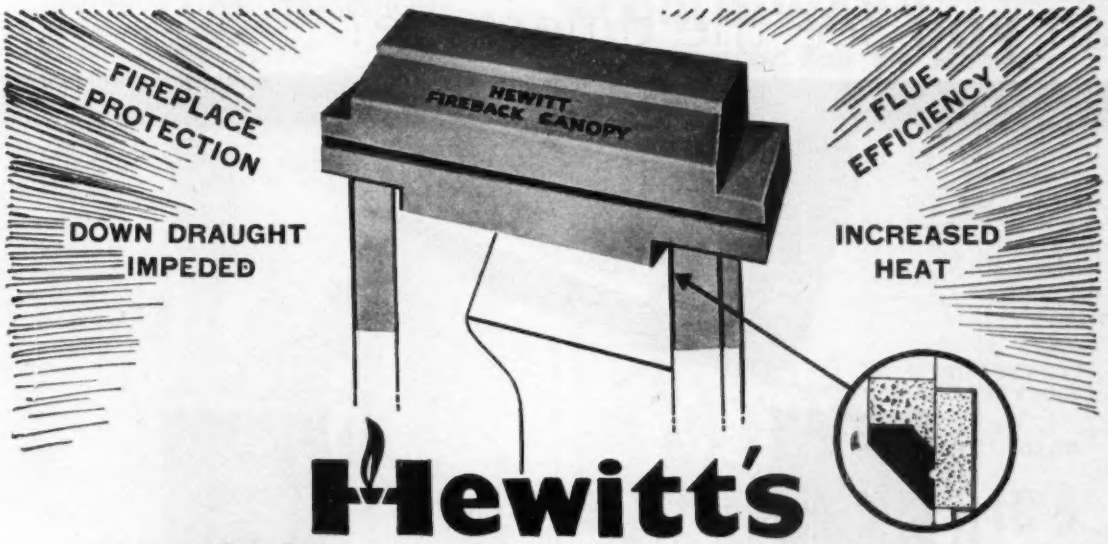

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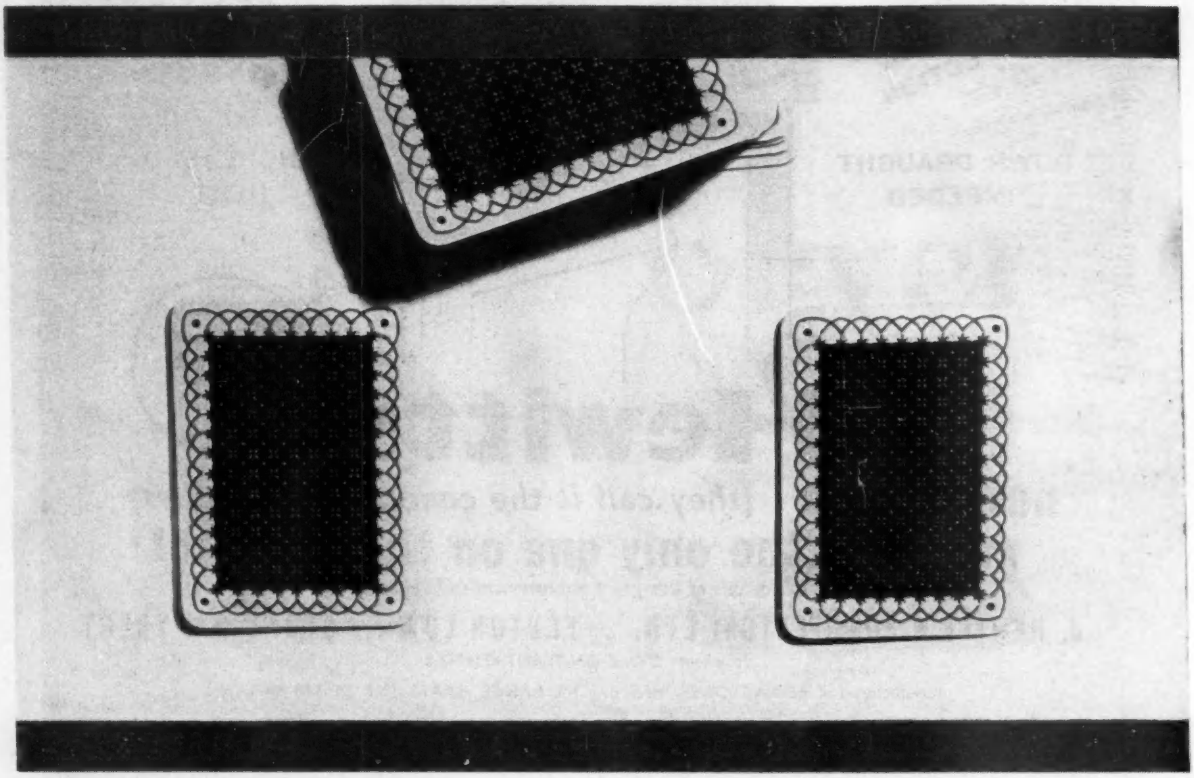
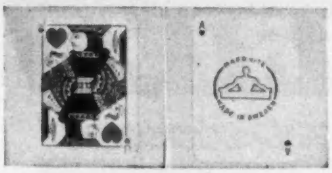
DURIVE is the ideal material for all those jobs that require individual quantities of macadam in a convenient and easily usable form.

can **you** see the difference?





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Its exclusive method of manufacture makes it of permanent durability. It does not twist, buckle or laminate in either interior or exterior conditions. Masonite Presdwood is made in Sweden by a special Exploded Wood Fibre process and is the most economical, most reliable Hardboard obtainable.

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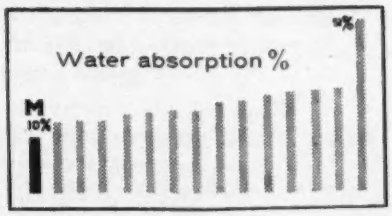
Formål: 35 st träfiberskivor
Undersökning: Svällning och vattenabsorption

	Water absorption	Swelling
MASONITE	9·6	8·9
Mean value for 14 other makes	22·3	17·7
Maximum among these	50·7	23·3
Minimum ,, ,,	15·8	12·2



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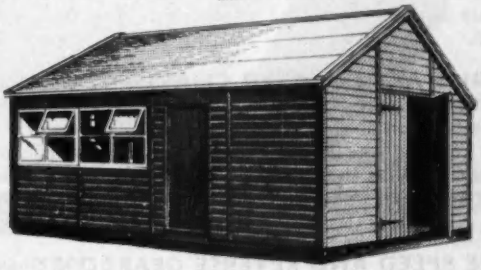

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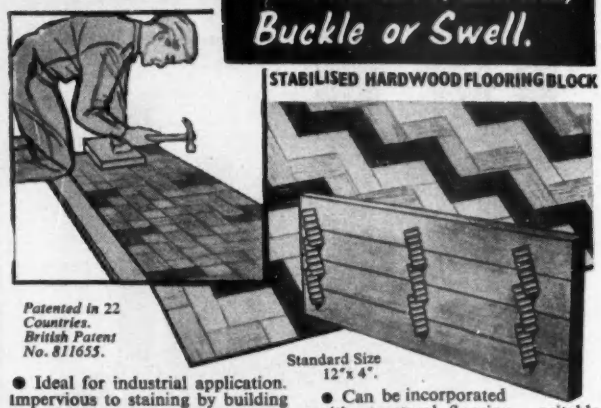

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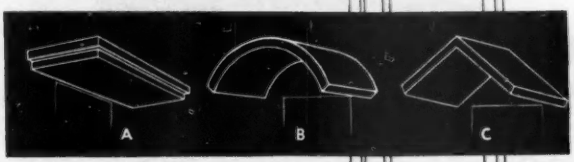

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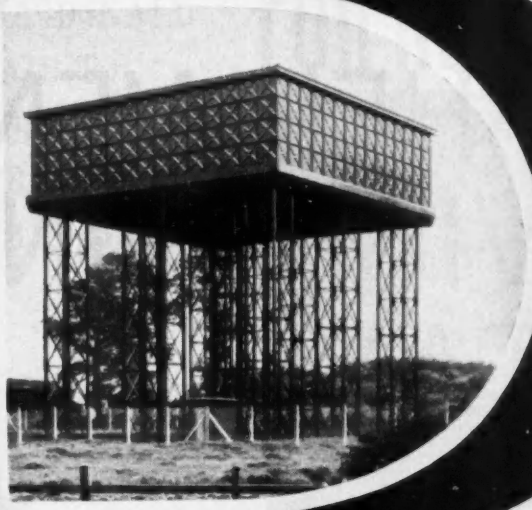

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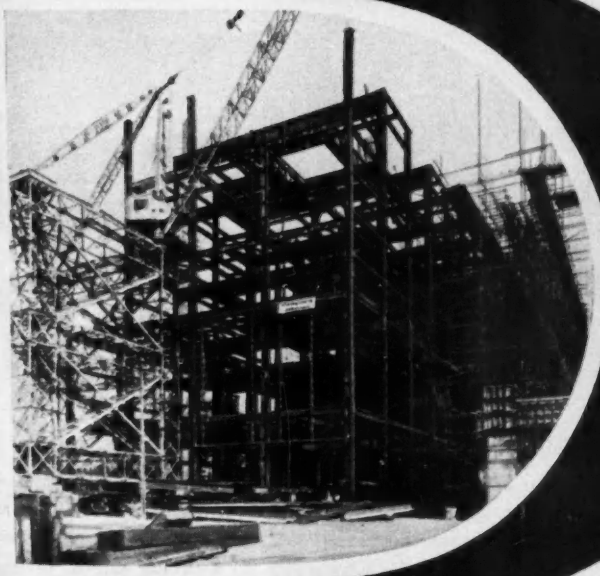

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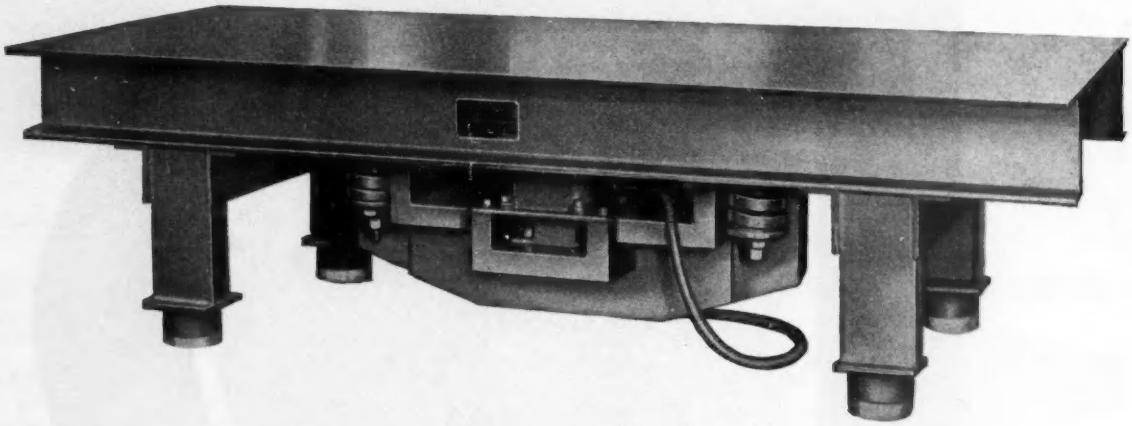

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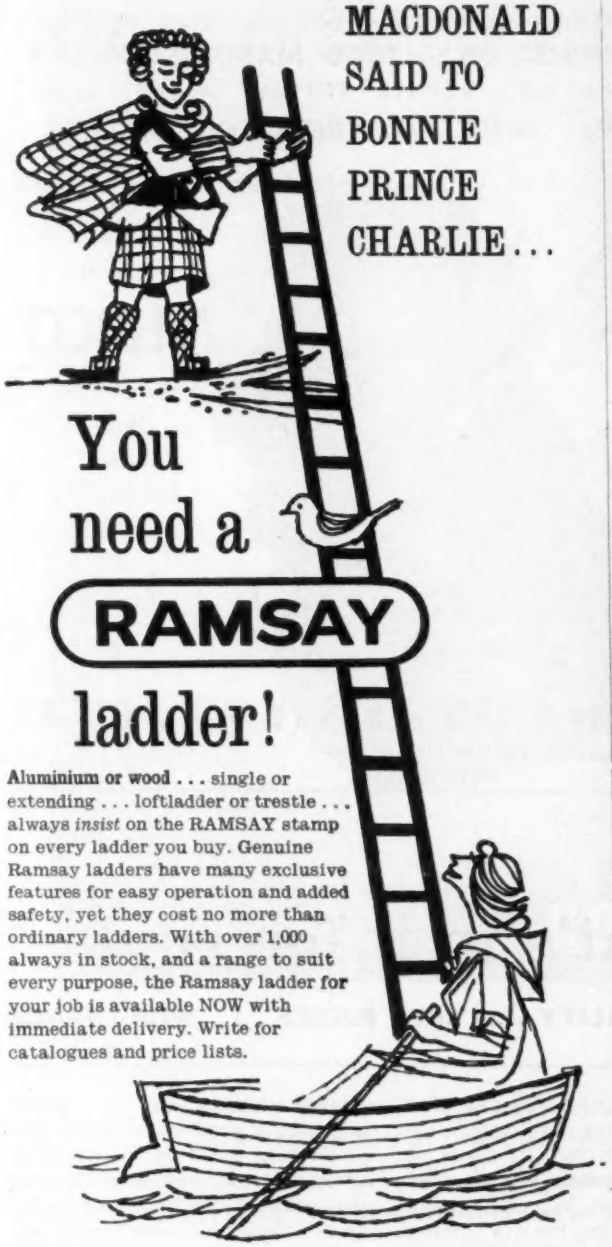

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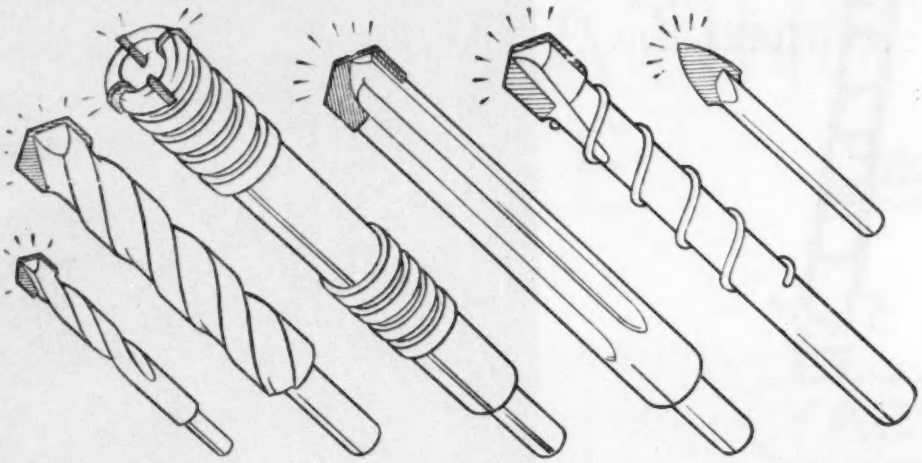

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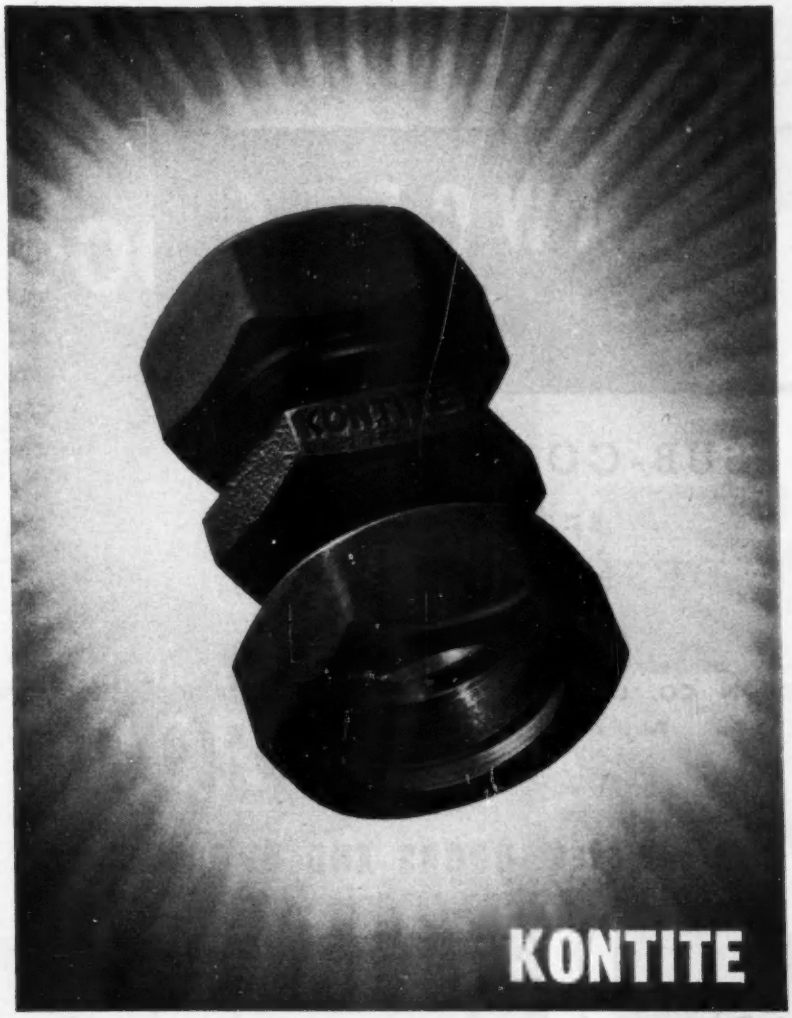

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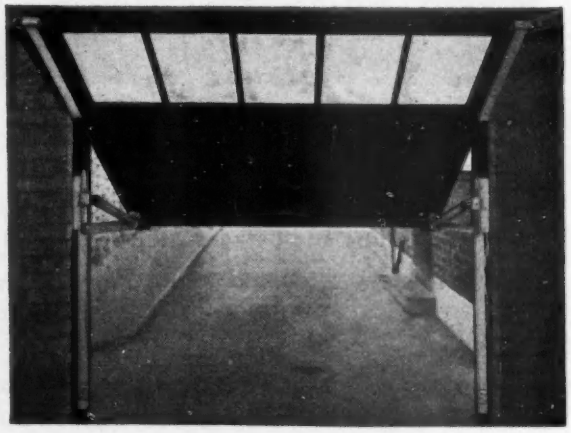

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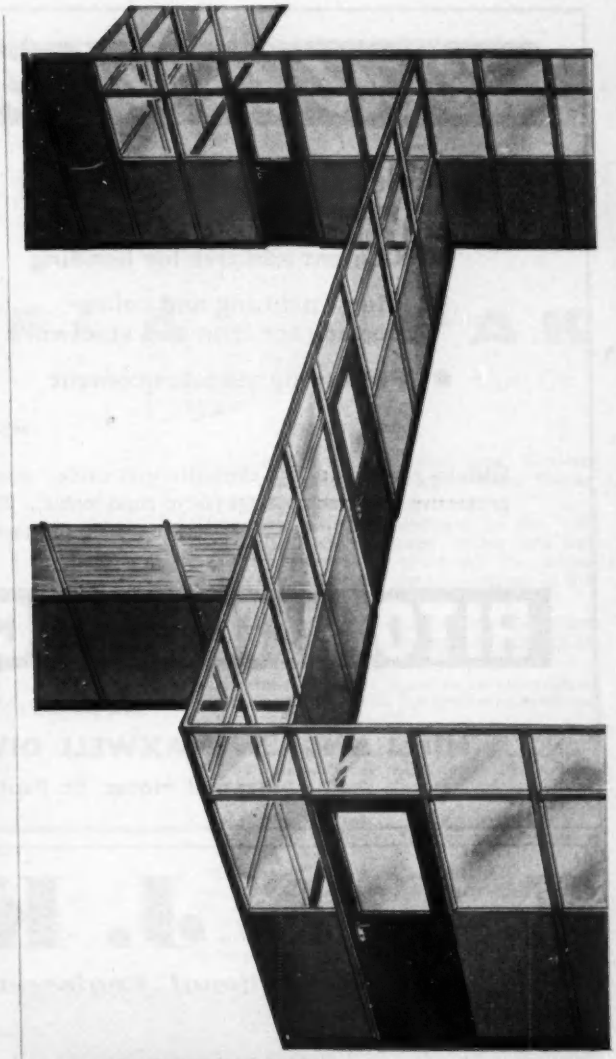

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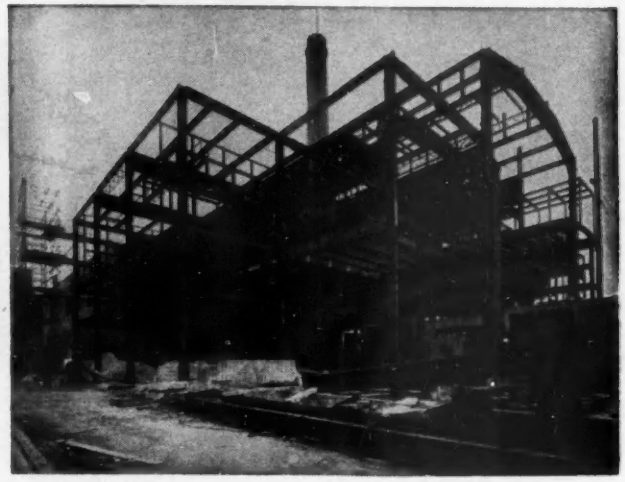

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ILLUSTRATED IN THIS ISSUE

Architects: Johnston & Wright L./F./A.R.I.B.A.

General Contractors

JOHN TWINAME LTD.

ALLERDALE HOUSE, BRIGHAM, COCKERMOUTH, CUMBERLAND

Telephone: BRIGHAM 351 (5 lines)

'PUDLO' PROVIDES PROOF . . . No. 3 OF A SERIES

Underground story...

of Waterproofed Ready-Mixed Concrete

When, in 1958, the beer cellar of the 'Harp' public house at Parson's Mead, Croydon, was excavated for rebuilding, water was found to be present at a depth of only 3ft. 6ins. below the level of the upper surface of the old floor. To combat these inherently damp conditions 'Pudlo' CEMENT WATERPROOFING POWDER was specified for the READY-MIXED CONCRETE used in the new floor.

'Pudlo Waterproofer' was also used in the internal rendering of the outer walls and, to ensure complete protection from damp penetration, a 'Pudloed' cove was formed at the junction of the wall and floor.

TECHNICALITIES:

Floor

Area: approximately 1,250 square feet.

Composition: Waterproof Ready-Mixed concrete to 8" thick, with granolithic surface.

Mix: 4:2:1 reinforced with No. 8 B.R.C. fabric and waterproofed with 16 lbs. 'Pudlo' cement waterproofer per cubic yard of 'SURECRETE' Ready-Mixed Concrete.

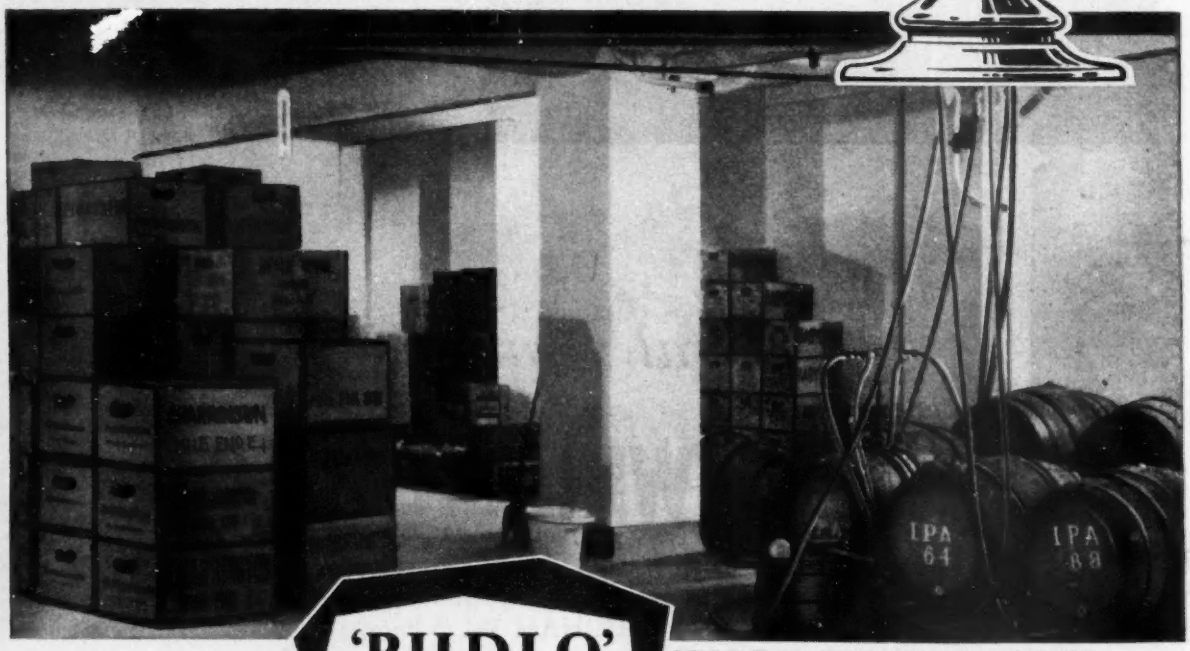
Walls

Hard semi-engineering brick, to a thickness of 13½ inches.

Internal Rendering

Two parts Westerham Sand.
One part Portland Cement.
5 lbs. 'Pudlo' to every 100 lbs. cement, applied in three coats to a minimum thickness of one inch.

Beer Cellar of the 'HARP' Parson's Mead, Croydon. By Courtesy of Page and Overton's Brewery Ltd.



Architects: Leonard Chignall & Son, F.I.A.A., M.INST.R.A., M.R.SAN.I. Romford.
Contractors: Galbraith Bros., Crayford

'PUDLO'

CEMENT WATERPROOFING POWDER

other 'PUDLO' products include: Waterproof Cement Paints, Cement Paint Primer, Cement Bonder, External Water Repellent, Plaster Bonder, Frost Protector/Rapid Hardener, Mortar Plasticiser, Cement Hardener/Dust Proofer, 'Feusol' Fire Cement.

WT.18 *Sole Proprietors and Manufacturers* **KERNER-GREENWOOD & CO. LTD., KING'S LYNN, NORFOLK**

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News Summary

815 *Mr. Basil Spence, President of the Royal Institute of British Architects, has been elected a Royal Academician.*

821 *The view that the school of architecture within the proposed College of Advanced Building Technology should be 'unrecognised' by the RIBA is advocated in a letter by Professor R. Gordon Brown as a means of permitting full educational experiment.*

821 *A correspondent revives the suggestion that the Presidency of the RIBA be offered to a leading architect in one of the Commonwealth countries.*

824 *'Recent settlements for wages and hours suggest that we shall be very lucky if price stability continues much longer,' states Professor C. F. Carter in his quarterly analysis of trends in productivity and prices.*

829 *A £1,250,000 contract has been placed for the reconstruction of Nos. 10, 11 and 12 Downing-street, and the Treasury Whitehall buildings.*

830 *Details are announced of an international architectural competition for the development of a resort on the Costa del Sol, Spain.*

835 *A scheme for a new theatre to seat 500 on a riverside site at Guildford has been submitted to the planning authorities.*

835 *The RIBA announced particulars and conditions of entry for the 1961 'Architecture Today' Exhibition, which is being held to coincide with the IUA Congress in London in July next year.*

838 *One in six of the 184 people who went bankrupt in the Birmingham area last year were in the building trade.*

'Late News' will be found overleaf, and 'News of the Week' on page 829.

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. April 29th 1960 No. 6102

Published from 'The Builder' House, Catherine-street, Aldwych, London, WC2. Telephone: Temple Bar 6251-2-3-4. Annual subscription: £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

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Scottish Contracting in Trouble?

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These are hard words. Are they justified, and if so, how can the situation be improved? First, it may be thought that a drift away from the traditional system, by reason of the growing complexity of modern constructions, is inevitable. There is an insufficiency of architects and clerks of works able to carry out with knowledge and expedition a job which taxes to the full even the experienced main contractor whose job today increasingly is becoming that of a co-ordinator and servicer of specialist trades. The architect cannot be blamed that he cannot add to his services the general contractor's role.

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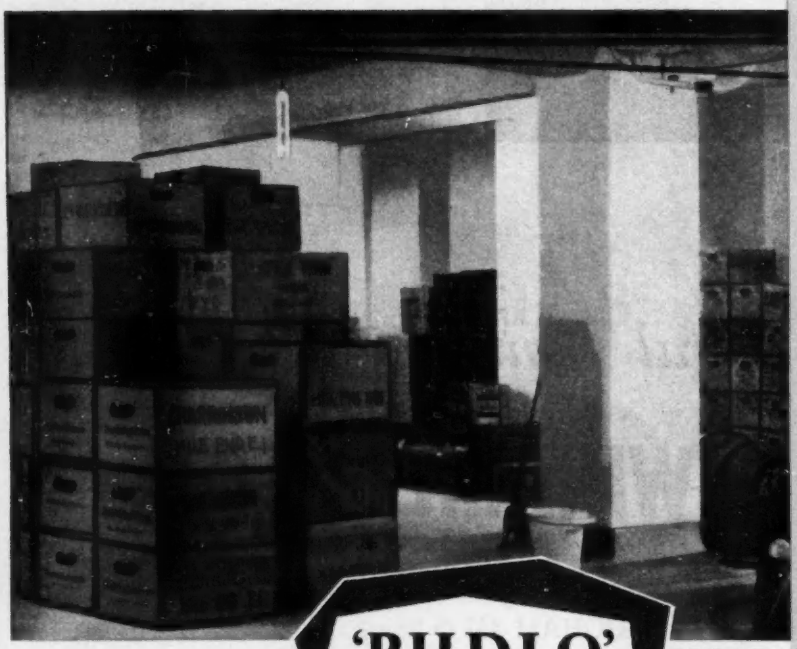

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Late News

The Academy Opens

THERE ARE FEWER EXHIBITS than usual (78 against 90 last year) in the Architecture Room at the summer exhibition of the Royal Academy (open to the public tomorrow, April 30, from 9.30 a.m.). First impression is that the standard of architecture is higher, perhaps because of the large amount of collegiate work on view (buildings at 17 universities or university colleges are shown).

The east wall of the room is taken up by drawings, mostly familiar, of various of the late Sir Giles Scott's works, including Liverpool Cathedral, Bankside Power Station and a scheme for the Forth road bridge. This is a generous tribute. Among the drawings is A. C. Webb's masterly view of the cathedral showing the future West end, a picture fit to rank with Raffles Davison's beautiful interior in the possession of 'The Builder.'

From the draughtsman's point of view the show is dominated by Mr. Spence's magnificent representations of his own work, though in their own ways drawings by Mr. Peter Sainsbury, Mr. Arthur Shearing and others hold their own. It is good to see one or two new names in the list of perspectivists, Mr. Roy Latham and Mr. Lawrence Jackman among them.

The architecture will be reviewed next week by Robert Paine, ARIBA, ARCA.

The Industry and Monetary Policy

THE National Federation of Building Trades Employers have published their views on the Report of the Radcliffe Committee on the working of the Monetary System. In their conclusions the Federation state that 'all the experience of recent years shows that marked and sudden changes in the demand for building work caused directly by Government action have harmful effects on building efficiency and productivity, and hence on the cost of building to the community. An all too common fallacy is that building work is like water that can be turned on and off with a tap.'

After rejecting licensing and other direct controls the Federation state: 'The extension of Treasury control to building societies and the type of control of capital issues recommended by the Radcliffe Committee, could . . . result in more severe fluctuations in the demand for building work.'

BEA Training Centre Contract

A £500,000 CONTRACT has been awarded to Holland & Hannen and Cubitts (Great Britain) Ltd., for the construction of the new British European Airways Training Centre at Heston, Middlesex. The architect is Mr. R. S. Harvey, ARIBA; the consulting engineers are Scott & Wilson, Kirkpatrick & Ptnrs.; and the quantity surveyors are Wakeman Trower & Ptnrs.

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Scottish Contracting in Trouble?

THE SYSTEM OF CARRYING OUT BUILDING by means of separate trades contracts is traditional in Scotland. Under this system the architect obtains competitive tenders for the various sub-trades and himself, or through a clerk of works, acts as co-ordinator of the assembly process. In this way, it is claimed, control over both price and quality is maintained in the interest of the client who also is saved the builder's profit such as would be added under our English contracting system. That such a plan should have persisted so long is a token of its validity.

The article from our Special Correspondent which appears on page 831 indicates that there are signs that the method is in danger of breaking down. While there are other factors which contribute to the situation, the main one would appear to be that the architect increasingly is finding difficulty in co-ordinating the work of the sub-trades and 'is letting his heritage go to the consulting engineer on the one hand and the main contractor on the other. He is neglecting his position and in the process is allowing a perfectly efficient and economical system to go to the wall in favour of a more costly system which at the most may save the architect a lot of work but certainly not his client any money.' Our correspondent adds that the general contractor now obtains prices for the sub-trades and on occasion is not above hawking the sub-contract round to secure benefit which is not passed on to the client.

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The Scottish architect cannot escape responsibility, however, for the accusation that he is letting the situation

get out of control, especially to a point where, as seems more than probable, injustice is being done to the specialist sub-contractor by reason of the main contractor's new-found freedom of action to play off one sub-contractor's tender against another. The immediate remedy, our correspondent suggests, is that, subject to the right of the main contractor to carry out any particular trade himself, sub-trades should tender direct to the architect and that nomination of those trades should be practised to a far greater extent than now.

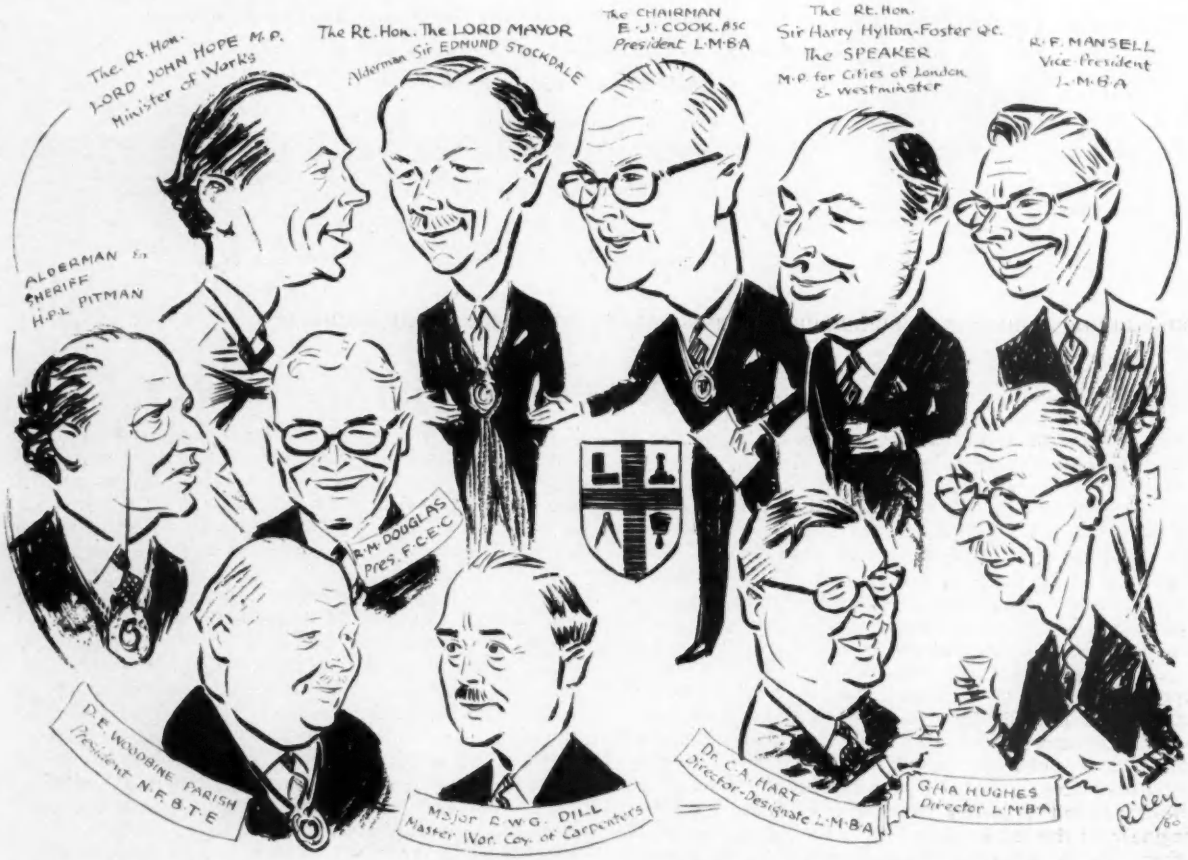
Looking to the future, there seems to be urgent need that all parties in the Scottish building industry should sit down round a table and give serious thought to the manner in which the main contractor system is developing. If, as a result, a Code of Tendering Procedure be drawn up for guidance, in place of the present General Conditions of Contract which now seem inadequate to cover the main contractor system, then an altogether healthier state of affairs could emerge, for the client no less than the various partners in the industry. The Royal Incorporation of Architects in Scotland should take the first step towards this desirable end.

Spring Clean

THE MINISTRY OF EDUCATION CIRCULAR 6/60 (reprinted in 'The Builder' of April 22) cannot but evoke a warm appreciation in all those connected with school buildings. The very reference in the first line to 'five years' increased effort' may, we hope, indicate a welcome and permanent departure from the usual year-to-year programme of school buildings with its alternating acceleration and braking, leading to uncertainties and frustration instead of a steady continuity of effort.

The greater part of the Circular deals with methods 'to streamline procedures' such as acquiring sites in good time, deciding on architectural staffing, speeding approvals by certifying compliance with regulations and such matters which are more within the province of the Education Officer. But the news of particular interest to the architect and builder is the tardy official recognition that if future excessive maintenance costs are to be avoided, some attention (not the same for all classes of work) must be paid to rising costs by a review of costs limits for new schools, technical colleges and other educational building.

This is not to disparage the excellent job the Ministry have done for the taxpayer over the years in extracting more value for money in schools than in perhaps any other class of building. Whilst the announced increases will hardly permit a return to the previous days of lush finishes, they will at least bring some heart to those responsible for building schools for a life of sixty years.



LMBA LUNCHEON TO THE LORD MAYOR: *Some personalities as seen by Harry Riley (see Note).*

Notes of the Week

RA Elections ; British Embassy at Brasilia ; LMBA Entertains the Lord Mayor ; Productivity and Prices

BY A COINCIDENCE, Friday last was a day on which not only was Mr. Basil Spence raised to full membership of the Royal Academy but the Order of Merit was conferred on Mr. Graham Sutherland. They are, of course, associated in the tapestry which will form the backcloth to the chancel at Coventry Cathedral. This was illustrated in colour in 'The Builder' of March 28, 1958. The tapestry, which is being woven at Falletin, just outside Aubusson in France, by Pinton Frères, is about one-third finished; completion is expected next year, but a trial section will shortly be on display at the Victoria and Albert Museum.

Mr. Spence fills the place among the Academicians left vacant by the death of Sir Giles Scott. This is the third occasion on which the mantle of Sir Giles has fallen on the PRIBA, the others being the succession to Coventry Cathedral and the Presidency of the Building Centre. The ranks of the ARAs are filled by two painters, Mr. Leonard Rosoman and Miss Anne Redpath, the former a landscape artist and the latter one of the most distinguished of Scottish impressionists; both will enrich the Academy.

Brasilia's British Embassy

THE PROPOSAL made by the Architectural Correspondent of 'The Times' that the new British Embassy in Brasilia (new capital of Brazil, officially opened last week) should be the subject of an architectural competition has much to commend it. That private architects should have the chance of designing this important building is not in any way to slight the high standard of design which now comes out of the Ministry of Works. British architecture can do, at this present moment, with a 'lift' abroad, and with the advantage of a large number of architects who have overseas experience, a competition for this building in a city much in the world's eye could be a big thing for British prestige. The Minister of Works could well consider the suggestion.

LMBA Lunch to the Lord Mayor

ALWAYS ONE OF THE BEST building trade shows of the year, the luncheon given by the LMBA to the Lord Mayor on Friday last at the Savoy was no exception. A distinguished company, which included the Speaker, Sir Harry Hylton-Foster; the Minister of Works, Lord John Hope; and the Masters and Clerks of many of the Livery Companies associated with the building industry heard a stimulating speech from the President, Mr. Ernest J. Cook, in which subject matter and delivery alike were excellent. The point made by the President that the building industry remains one in which it is still possible for the youngest craftsman to rise to the highest office is a valid one; and the challenge which the industry offers in meeting mounting competition abroad is equally real. Within his calculatedly brief speech the President yet managed to stress the fact that enlightened management is the keystone to national industrial survival. How right he is!

The Lord Mayor addressing the annual luncheon given by the LMBA in his honour at the Savoy Hotel last Friday. Others in the group are (l. to r.) Lord John Hope, Minister of Works, Mr. R. F. Mansell, Vice-President LMBA, and Mr. E. J. Cook, President LMBA (see note)

Mr. Cook raised a laugh from those of the company who were aware that he, with Mrs. Cook, will be the representative of the NFBTE at the 150th anniversary celebrations of the French civil engineering industry in Paris next month. They will make good ambassadors.

THE LORD MAYOR, Ald. Sir Edmund Stockdale, in an equally appropriate speech, spoke of the City's efforts to rebuild its war-shattered buildings, and went on to pay special tribute to the retiring Director, Mr. G. H. A. Hughes, for his work over the years for the LMBA. This was warmly received. Finally, and as an unexpected addition to the toast list, the Speaker (who is also Member for the City and Westminster) expressed the pleasure of the 250 members and guests present at the arrangements made for their comfort, after which, at 2.20 p.m., proceedings terminated. A fuller report of an excellent occasion is on page 835.

Poet's Corner

A RECENT Royal Commission revealed that Doctors and Dentists are at the top of the scale of professional salaries and Architects at the bottom. The RIBA is looking into the matter. The following jingle may be sung to the tune of the well-known glee in 'The Mikado.'

See how the fates their gifts allot,
D's are happy, A's are not—
In status and in salaries
They lag behind the lucky D's.
But are they worthy? I should say
They've earned the status and the pay!
A's should be happy, Oh, so happy!
Planning, dreaming, building, scheming,
Living out laborious days—
Let us well reward and praise
All these meritorious A's!

ANON.

Productivity and Prices

THOSE who regularly follow Professor C. F. Carter's quarterly articles on 'Productivity and Prices' will notice certain changes in his latest contribution to the series, which appears on page 824. For the sake of clarity the large charts have been made to run for six years instead of for eight as formerly, and the small charts have been shifted one year. The headings of the large charts have also been altered, and now convey the message of the graphs more readily. The most striking change here is seen in the chart formerly labelled 'Retail Prices' and 'Building Labour per Man Hour'; this now bears the more controversial general heading of 'The Workers' Standard of Living' which is, after all, the information that the chart really conveys.

Controlling City Growth

SENHOR LUIS DE GUIMARAES LOBATO, the Portuguese planner, is to give a paper at the RIBA on 'Planning and Controlling City Growth,' on Tuesday, May 17, at 6 p.m. Senhor Lobato is the director of the Technical Division of the Gulbenkian Foundation and in 1954 he headed, as consultant to the Municipality of Lisbon, a study group to revise and complete the planning of the city. He was responsible until 1958 for the elaboration of the Master Plan for Lisbon and for the design of other urban schemes of housing. He speaks excellent English.

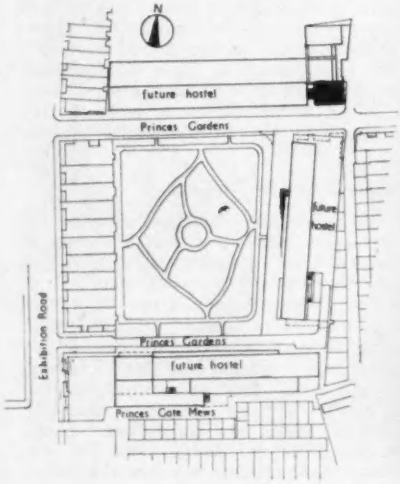
Imperial College, Students' Hall of Residence

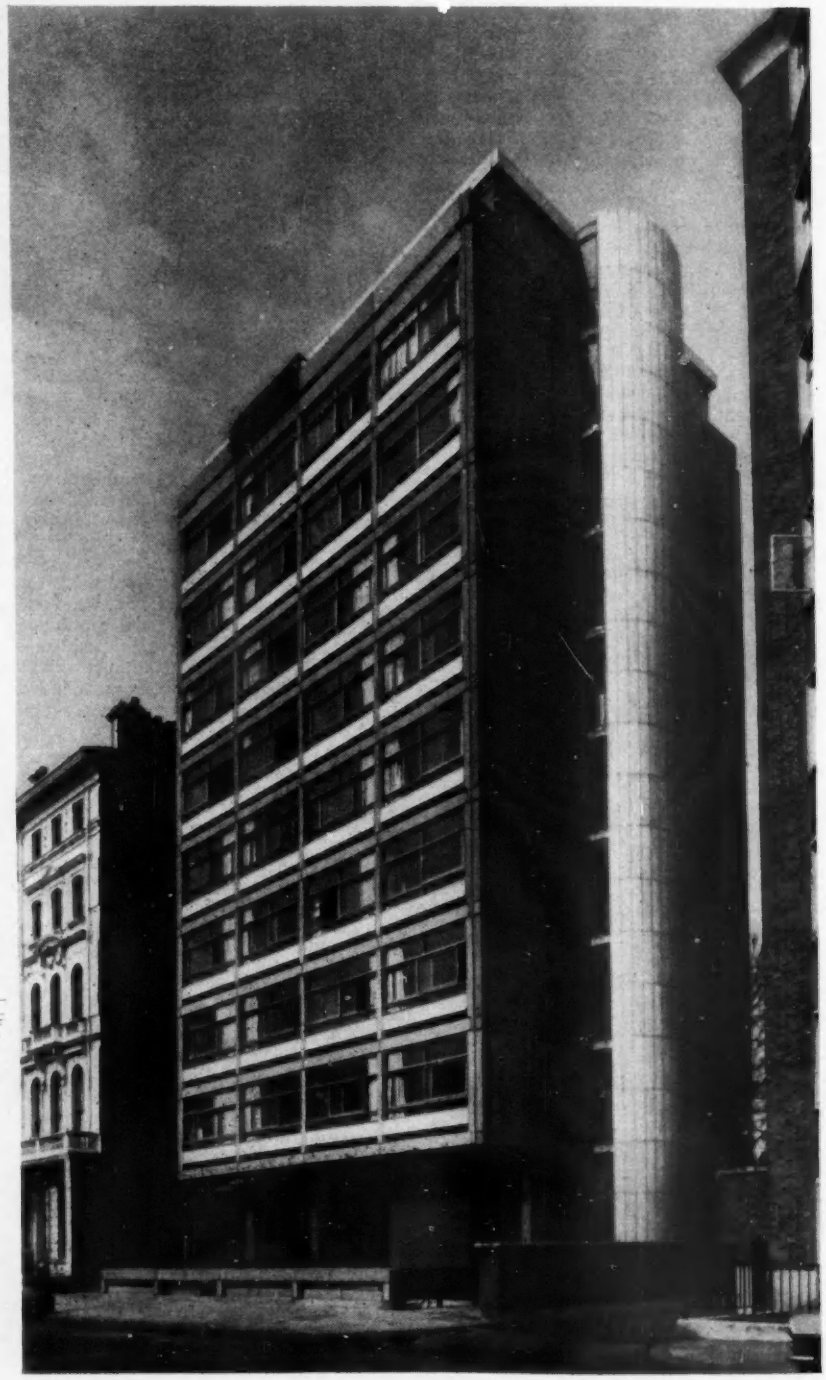
WEEKS HALL is the first completed part of a scheme to create a new student residential precinct in Princes Gardens, W1, for the Imperial College. The hostel was given to the college by Vickers, Ltd., and is named after Lord Weeks who was previous chairman of the company. Weeks Hall contains 69 students, and the complete development will cater for about 1,400 men.

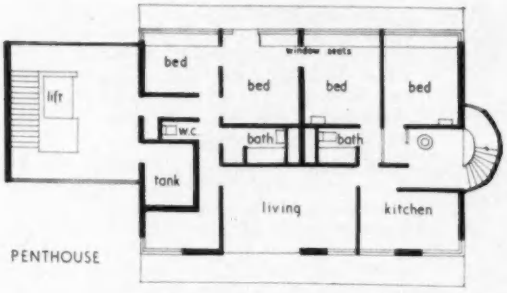
Generally throughout the scheme the halls are planned in horizontal layers, one floor of communal rooms being set under three floors of study bedrooms. Stairs are grouped along the communal floor, each one serving 24 study bedrooms, 8 per floor. This unit of 8 rooms forms a 'set' with its own lavatory, bathroom and shower. The hall, therefore, is built up from the horizontal grouping of 3-storey stacks of 'sets' each set connected by stairs to the social and recreational area which provides the point of entry to the hall. The halls are grouped to form slab blocks each 2 halls long and 2 halls high, making possible an economical distribution of lifts, main fire stairs, porter control points, etc. One such block is placed on each of the three sides of the square, enclosing the pedestrian precinct and making the most of the views on to the gardens, which contain many fine trees. A distinct architectural character arises from the contrast between the open nature of the communal gallery floors and the cellular nature of the study bedroom floors. The two galleries are recessed and glazed the full height, making possible open-air extensions of the communal spaces, and balcony walkways all round.

RICHARD SHEPPARD, ROBSON & PTRS., architects
CLARKE NICHOLLS & MARCEL, consulting engineers
DAVIS BELFIELD & EVEREST, quantity surveyors
TERSONS LTD., general contractors

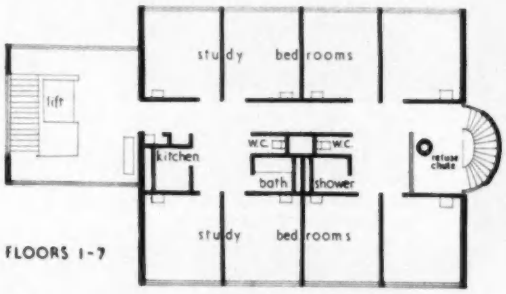
Site plan of the total scheme



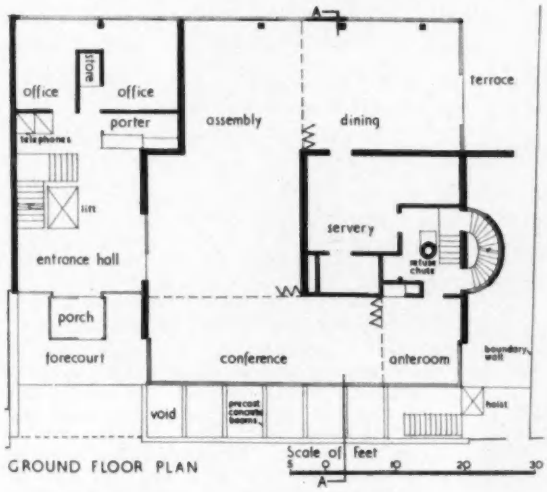




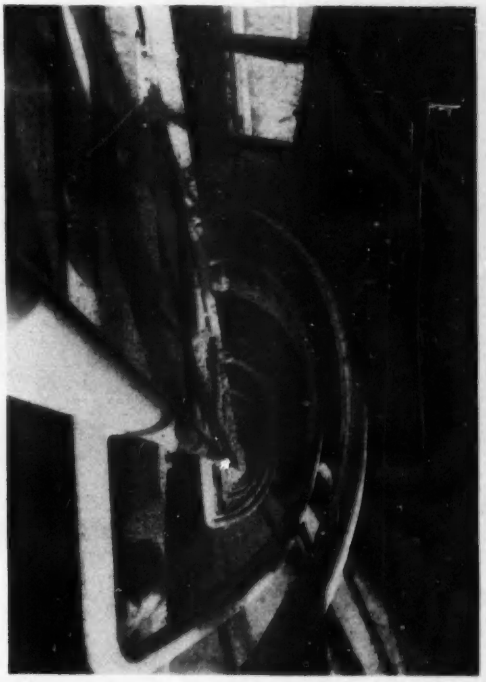
PENTHOUSE



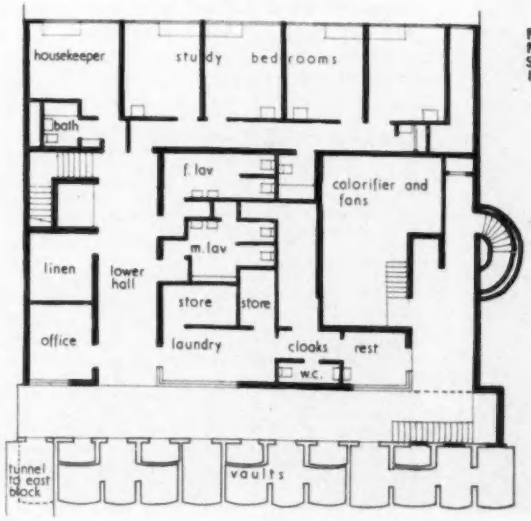
FLOORS 1-7



GROUND FLOOR PLAN



The elliptical staircase was precast in flights and bolted to the floor slabs

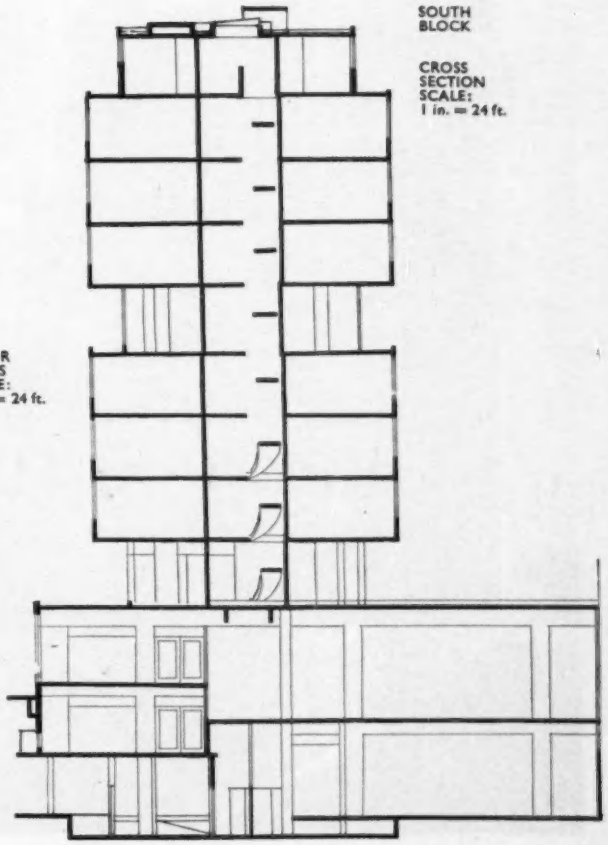


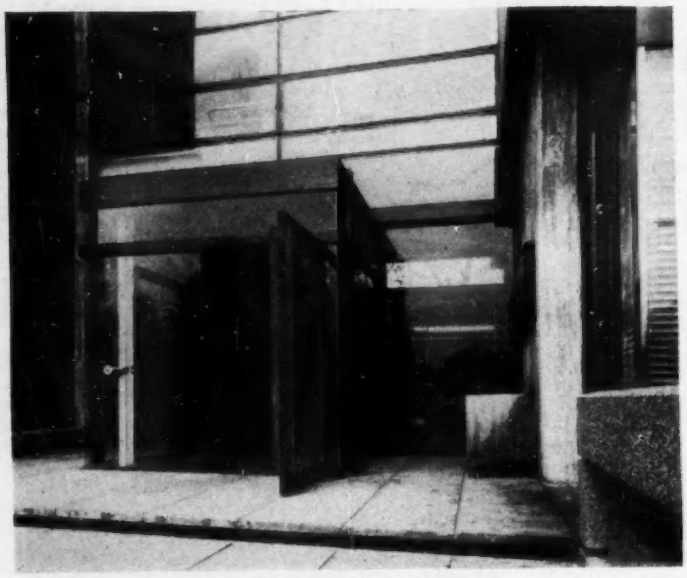
BASEMENT PLAN

FLOOR PLANS SCALE: 1 in. = 24 ft.

SOUTH BLOCK

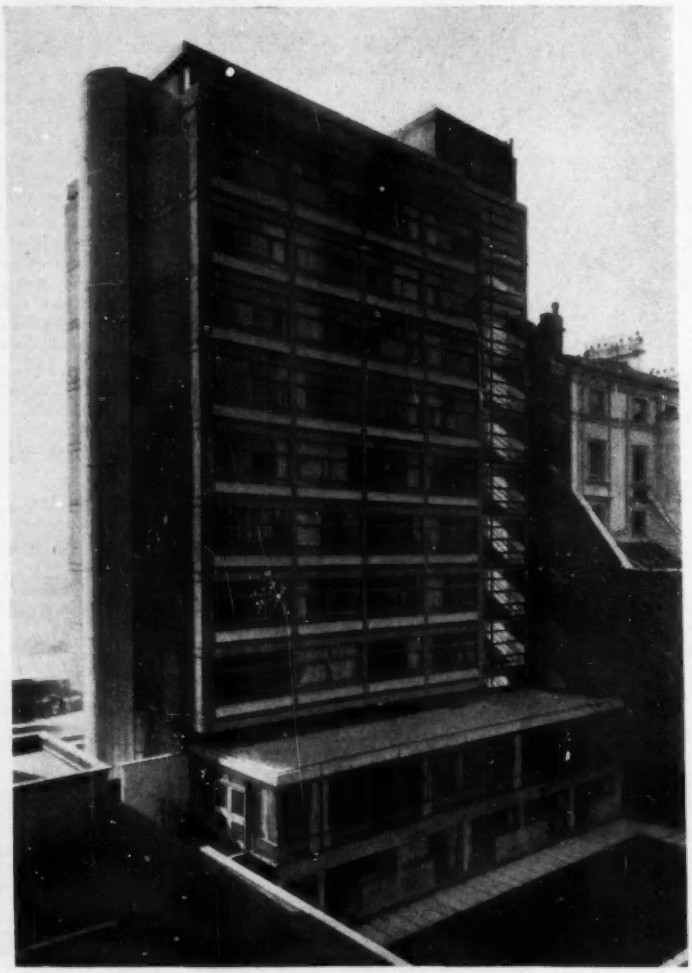
CROSS SECTION SCALE: 1 in. = 24 ft.





Main porch entrance

Rear elevation



The same levels are maintained for gallery floors on all three blocks. The square falls about 10 ft. towards south, and this additional depth under the south block is used to house the large common rooms, butteries, bars, refectories, kitchens, etc., which will serve the whole of the precinct.

Weeks Hall acts architecturally as a stop to the east end of the future north block and its planning is therefore vertical, in distinct contrast to the rest of the scheme. The large communal rooms are on the ground floor over which are placed eight floors of student accommodation topped by a penthouse flat for the warden. Each typical floor is an 8-room 'set' served by a lift and staircases.

The study bedrooms were the outcome of considerable research when several mock-up rooms were built and furnished in order to study user requirements in detail. The Weeks Hall rooms have an 11 ft. frontage, 2 ft. wider than that envisaged for the rest of the scheme, and this will help to emphasise the individual character of this hall within the complete development.

The study bedroom windows are all in Burma teak untreated externally and oiled internally; all other windows are metal, painted dark blue-grey. All windows can be cleaned from inside the building.

The curved wall around the secondary staircase is clad in precast concrete slabs faced with Norwegian quartz and used as permanent shuttering.

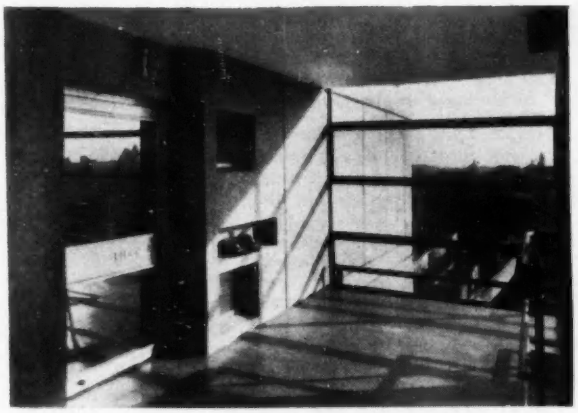
The design of the cladding units is interesting in that the horizontal cill units also form the 3 ft. high back-up wall necessary to meet fire regulations. These units sit on the edge of the structural floor slab and the vertical units are notched into them above and below. There are no bronze cramps as in traditional cladding fixing. The units are profiled so that they restrain each other and bronze bolts or dowels key them into the structure.

The in situ concrete flank walls have projecting nibs at floor levels on which the L-shaped horizontal units sit. The vertical units in turn rest on these and are prevented from falling outwards by the horizontal units on the floor above. Threaded sockets were left in the horizontal units so that they could be levelled by means of eye bolts before grouting. When the grout was set bolts were removed and used again, the holes being filled.

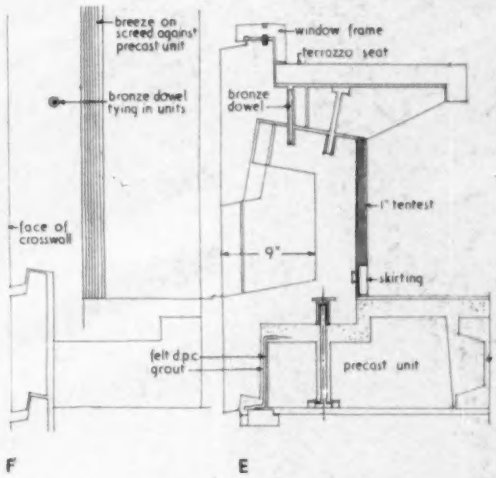
The elliptical secondary stairs were precast in flights and bolted direct to the floor slabs.

Nominated Sub-Contractors and Suppliers

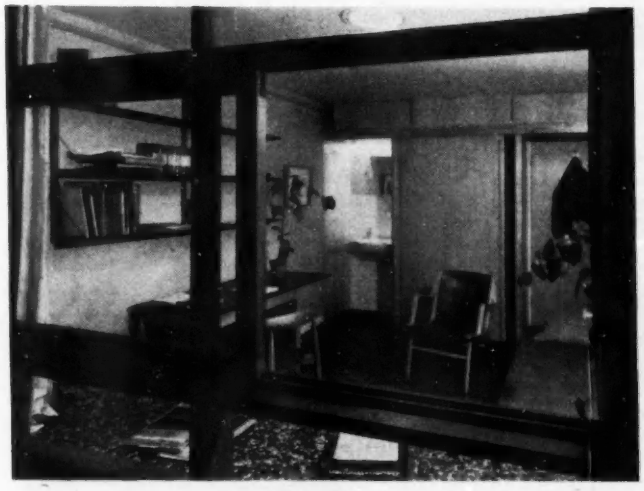
Lift enclosure: Morris Singer Co. Ltd.; *rubber flooring:* Haskell Robertson Ltd.; *piling:* Cementation Co. Ltd.; *lifts:* Express Lift Co. Ltd.; *fire fighting equipment:* General Fire Appliance Co. Ltd.; *precast concrete cladding and stairs:* Kendell's Stone & Paving Co. Ltd.; *sliding and folding doors:* Esavian Ltd.; *balustrading:* H. and C. Davis & Co. Ltd.; *timber windows and wardrobes:* Geo. M. Hammer & Co. Ltd.; *terrazzo seat and drawer:* Malacarp Terrazzo Co. Ltd.; *internal telephone system:* Siemens Edison Swan Ltd.; *metal windows:* James Gibbons Ltd.; *bricks:* Pratt (Watford) Ltd.; *locks:* A. G. Roberts Ltd.; *limpet spray:* Turners Asbestos Cement Co. Ltd.; *hand operated hoist:* Aldous and Campbell Ltd.; *iron spiral stair, bridge and metal balustrade:* Haywards Ltd.; *acoustic panels:* Coronet Engineering Ltd.; *slate plaque:* Bow Slate and Enamel Co. Ltd.; *electrical:* J. A. Brown and Partners Ltd.; *heating:* Weatherfoil Ltd.; *planting:* C. Rassell Ltd.



The precast concrete cladding units on the flank walls are continued through the glass of the staircase hall and form the internal wall linings

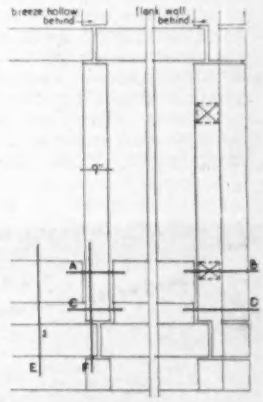


CLADDING DETAILS

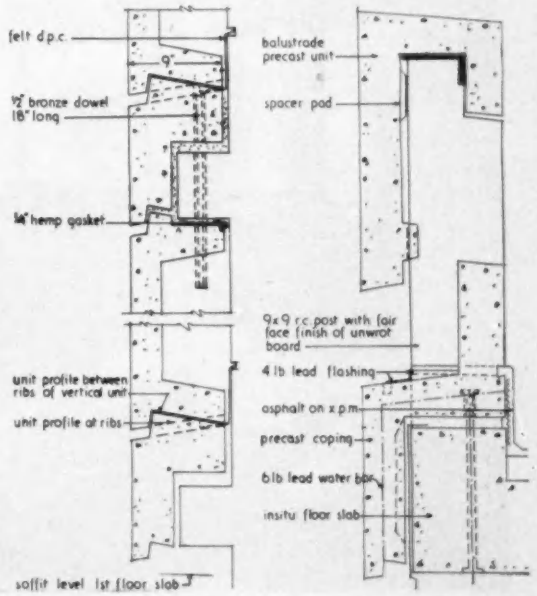


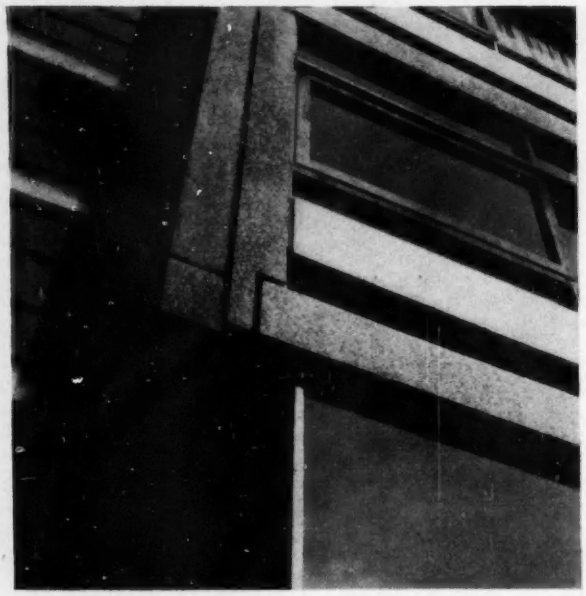
Opposing views of a prototype study bedroom. The sliding window is oiled Burma teak, and the wardrobe, cupboards, doors and skirtings are in polished beech. The window seat is of precast terrazzo

DIAGRAM OF CLADDING UNITS



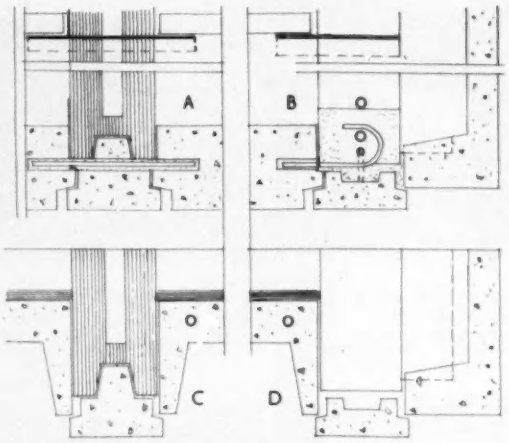
CLADDING TO FLANK WALLS & PENTHOUSE LEVEL SCALE: ¼ in. = 1 ft.





Precast concrete cladding units are faced with Cornish granite, and the exposed structure has Cornish Lee Moor sand in the mix

CLADDING DETAILS
SCALE: ½ in. = 1 ft.



The ground floor areas achieve warmth and intimacy by a generous use of natural timber. The low ceiling slab which extends over the space to the north has an acoustic lining held in position with 3 in. wide Columbian pine boards. The floor is of maple strip. The spaces flow into each other and sub-division is achieved with sliding folding doors, also faced with Columbian pine

Students' Hall of Residence, Imperial College

The Joint College and the RIBA

An Opportunity to Experiment

SIR,—Mr. Peter Trench, in his address at the RIBA ('The Builder,' March 25), had some hard things to say about the Institute's attitude towards joint training in the building industry. The leading article in 'The Builder' of April 15 expresses disappointment with the report of the LCC on the same subject, in regard to proposals for a joint College of Architecture and Building.

Any large educational organisation, such as the RIBA Board of Architectural Education, has records of sound and progressive ideas which have been proposed and, in due course, defeated because they contravened some important and existing general policy. It is normal procedure that the sponsors of a new development should then make further proposals and that these should be designed to show how the original intention could be maintained and how, by certain changes in the administrative forms proposed, the new development could come into line with the major policies which caused its first defeat.

A new conception of architectural education, related to a centre for joint training in the building industry, cannot be divorced from the consideration of RIBA examinations and recognition. It is only through the RIBA examinations that the architectural students in the new centre may become Registered Architects.

Course Alterations Essential

If the Regent Street Polytechnic School of Architecture is to be incorporated in a new centre of joint training, the difficulties of obtaining recognition may be thought to have been overcome. This is only true, however, if the course at Regent Street remains substantially the same as it is at this time; the RIBA have recognised the course at Regent Street and have delegated no authority by which the Polytechnic may substantially change its curriculum without the approval of the RIBA. To do so would be to risk the withdrawal of RIBA recognition. Yet, if any substantial degree of joint training is to be introduced, the Regent Street Polytechnic must make great alterations to its existing course. Will these, immediately, be acceptable to the RIBA?

It can be assumed that the RIBA will not be unreasonable, but it is on the grounds of reason that the Institute has always maintained that no new course can be recognised until it has run for at least one full cycle of five or six years. While the new College of Architecture and Building may consider that it is reasonable to suppose that the RIBA will continue to recognise the course at Regent Street, despite substantial changes of policy and method in the architectural school, the RIBA may consider it equally reasonable to refuse to continue the recognition given to one type of course simply by transferring it to something quite different. These considerations might restrict the changes which could be made at Regent Street to no more than a slight extension of the range of studies, leaving the present course intact. This would be a disappointing compromise between the existing system and the new proposals.

In view of the RIBA's known policies and the fact that it can withdraw recognition at any time, would it not be worth settling these points in advance? This suggestion is made in the belief that the matter cannot be settled by requesting the transfer of the recognition now enjoyed to a new and, as yet, untried method of architectural education and that we are knowingly committing the proposed College to a policy of compromise while pretending not to notice the fact. It cannot be too strongly emphasised that many fundamental RIBA policies would be affected by a transfer of recognition, for their importance, as factors governing RIBA action, is very great indeed.

An Unrecognised School the Solution?

It is submitted here that the solution may lie in the establishment of an unrecognised school. Leaving the Regent Street Polytechnic aside for the moment and considering only an unrecognised school, it is possible to suggest a way in which new freedom of action could be achieved and the proposed course put into operation, without altering any major policy or standard of education within the RIBA.

To begin with, it must be said that in existing unrecognised schools the Testimonies of Study and the taking of the Intermediate and Final examinations virtually dictate a form and system of education. Representations could be made to the RIBA requesting that the existing administrative regulations, regarding the intermediate examinations and the testimonies of study, be amended. It is proposed that the passing of the Intermediate examination should no longer be a prerequisite to sitting for the external Final examinations of the RIBA. It is also proposed that the Testimonies of Study required to be submitted by candidates for the external Final examination should, in future, consist of nothing more than a thesis project. This project would be required to conform to certain requirements which the RIBA would lay down. To meet these proposals the RIBA could be asked to make the necessary minor alterations to its examination regulations while in no way altering its educational policies and standards.

Freedom to Experiment

If these administrative changes were acceptable to the RIBA, the proposed College of Architecture and Building would be free to run the type of course which it has advocated. The allocation of time to different subjects could be replanned and, free from the testimonies, new methods of teaching could be introduced. Not having a recognised school in the new college seems a small price to pay for such freedom. The RIBA, on its side, would be allowing experiment to take place without in any way being responsible for it.

It should be noted that the changes in RIBA regulations, suggested here, would affect all the unrecognised schools. Some of these may prefer to continue with the present system and, for their benefit and the benefit of students not attending full-time courses, the present regulations could continue as an optional method. This seems reasonable as the RIBA already offers several alternative approaches to the Final examinations.

The arguments in this letter are designed to find a way in which the real objectives of the proposals for joint education can be achieved without contravening the policies of the RIBA. It is in our interest to avoid the possibility of drifting into joint education with the hope that some compromise solution may be evolved in regard to recognition. There is no possibility of an RIBA compromise in regard to its policies concerning the recognition of new courses and, for this reason, no attempt should be made to incorporate a recognised school in the new College of Architecture and Building.

If the RIBA would not be willing to make the minor administrative changes suggested in this letter, it is fair to ask the Institute, and I mean the Institute and not the RIBA Board of Architectural Education, to remove a growing fear that RIBA policies have brought about a situation where no change and no progress of any kind is to be permitted in the field of architectural education.

R. GORDON BROWN [MA(EDIN), AA DIPL, FRIBA],
Green Tiles, Denham, Bucks.

*** In an article by Mr. Gordon Brown, printed in 'The Builder' of April 15, we incorrectly prefaced his text with a statement as to his teaching activities in USA. Mr. Brown was, in fact, teaching at the Universities of Utah and Notre Dame, and engaged on consulting planning for the University of Utah and in the Middle West. We regret the error.

Letter to the Editor

RIBA Presidential Elections

SIR,—Now that the time is approaching for the election of the new President of the RIBA, may I revive the suggestion that was made some time ago in your columns that this presidency be offered to a leading architect in one of the Commonwealth countries?

Her Majesty the Queen and members of the Royal family, the Prime Minister and many members of the Cabinet, also the last two Presidents of the Institute, have all made extensive tours of the Commonwealth countries—and on their return have all strongly advocated the strengthening of the ties with the places they had visited. For instance, there are many architects in Canada of great personality and charm, each with a background of solid architectural

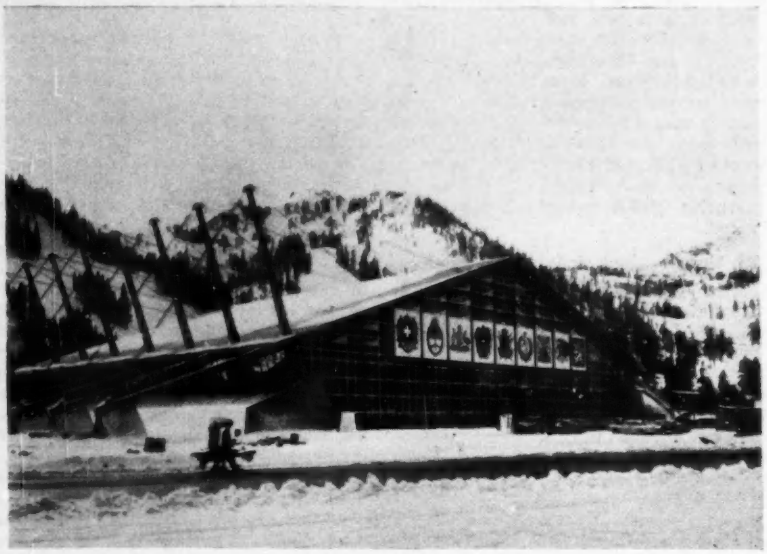
achievement second to none in this country, any of whom would consider it a great honour to be given this chance thus to serve their profession and homeland.

In considering this suggestion, it should be borne in mind that it takes less time to fly here from Canada than it does to motor down from Scotland to London. Also that in the case of the unavoidable absence of the President, his place could be taken by a Vice-President as was done when the last two Presidents of the RIBA, together with the Secretary, were touring abroad.

Another aspect of this suggestion is that thereby there is every likelihood of the status of the Institute being raised, first by the introduction of new blood to the precincts of Portland-place; and second in so far as the ensuing pause in the promotion queue of Presidential aspirants would afford additional time for each candidate to mature before taking up the heavy responsibilities of the Presidency.

It would be interesting to ascertain the reactions to this suggestion from each of the candidates for election to the RIBA Council.

S. H. LOWETH [FSA, FRIBA],
2 Balfour Court, Folkestone, Kent.



Blyth Olympic Arena at Squaw Valley, California, designed by Corlett and Spackman, Kitchen and Hunt, architects, of San Francisco, which was awarded a 1960 First Honor Award of the American Institute of Architects. The arena was the site of the ice hockey and figure skating competitions of the 1960 Winter Olympics

Obituary

Arthur J. Hope, FRIBA

THE DEATH OCCURRED on April 16 of Mr. Arthur John Hope, FRIBA, senior partner in the firm of Bradshaw Gass & Hope of Bolton, Lancs. He was 84.

Arthur J. Hope was the moving spirit in a firm which, between the wars, had an unsurpassed record in architectural competitions, especially those for municipal buildings where their sheer efficiency of layout and planning brought the firm success with their designs for Leith Town Hall and Library (1927), Lewisham Town Hall (1928), Wimbledon Town Hall (1928) and Luton Town Hall (1930). So distinctive, in fact, was the firm's style of presentation that Hope was on one occasion driven to having the whole of the drawings for one competition relettered, by reason of an acrimonious dispute in which the assessor had engaged him in a London club some days before the closing date. The firm won the competition! Other buildings executed by the firm included the rebuilding of the Manchester Royal Exchange (1921), extensions to the Manchester College of Technology (1928), a church at Pendleton (1923), Stretford Town Hall (1933) and Chesterfield Municipal Buildings (1938). The firm also designed Bolton Civic centre.

Mr. Hope joined the firm in 1892 and was taken into partnership ten years later. He became LRIBA in 1911 and was elected to the Fellowship in 1918. He was a past president of the Manchester Society of Architects and a former member of the RIBA council and of the Building Reseach Board, DSIR.

RIBA Building Surveyor Exam

AT THE RIBA Examination for the Office of Building Surveyor under Local Authorities, held on April 6, 7 and 8, nine candidates presented themselves, and the following were successful: S. Aldred, W. J. Clarke, P. M. Crabb, J. H. Critchell, E. Ellidge, T. H. Jones, T. E. Leivers.

British Architects' Conference

Summer Meeting at Manchester

THE Annual British Architects' Conference will take place at Manchester from June 15 to 18 at the invitation of the Manchester Society of Architects. The headquarters will be at the Town Hall where badges and information handbooks may be obtained by members. The theme of this year's conference will be 'Urban Renewal.' Application forms for membership and full information concerning hotels may be obtained from the Secretary of the RIBA at 66 Portland-place, London, W1. Forms must be returned not later than May 25. The conference fee will be £2 5s., which covers advance copies of the papers, badge and handbook, the informal reception given by the Manchester Society of Architects, and the civic reception given by the Manchester Corporation. Individual payment is required for all other items.

PROGRAMME

An informal reception will be held in the City Art Gallery, at which members will be the guests of the Manchester Society of Architects. On the morning of June 16 the inaugural meeting will be held in the Free Trade Hall and opened by an address of welcome from the Lord Mayor of Manchester followed by the inaugural address by the president, Mr. Basil Spence, OBE, RA, ARSA. Papers on the general theme of 'Rebuilding Our Cities' will then be read by Mr. Hubert Bennett, FRIBA, Mr. Arthur Ling, FRIBA, MTPI, and Mr. L. H. Wilson, OBE, ARIBA, AMTPI.

In the afternoon a garden party will be held at Heaton Park and Hall at approximately 3 p.m. The civic reception and dance, available by invitation to conference members only, will be held at the Town Hall at 8 p.m. for 8.30 p.m.

On Friday, June 17, discussions will be continued at the Free Trade Hall. The first part of this session will consist of a paper by Sir Keith Joseph, Bt., MP, Parliamentary Secretary to the Ministry of Housing and Local Government, followed by a discussion in which Sir Keith Joseph and other experts will take part. The second half of the session will begin with a summary of the proceedings by Sir Thomas Bennett, KBE, FRIBA, followed by further open discussion.

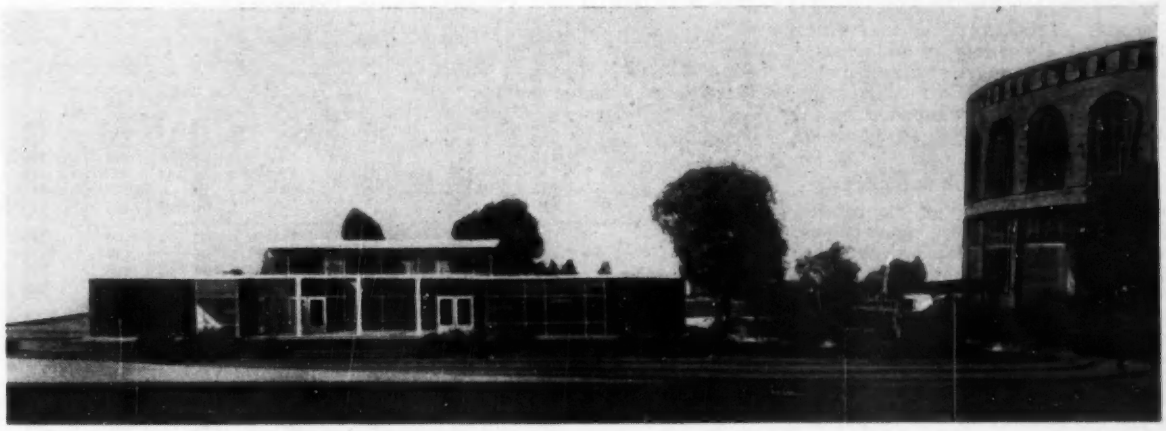
Alternatively, in the morning there will begin a series of whole and half-day tours. Tour No. 1 (whole-day) will be a visit to H. J. Heinz's factory at Kitt Green, Wigan, and a tour of the docks (guides: Mr. I. G. Fairhurst, MA, ARIBA, and Mr. D. V. McCaig, ARIBA); No. 2 will consist of visits to Haddon Hall and Lyme Hall (guides Dr. T. L. Marsden, ARIBA, and Mr. J. P. Whittle, BA, ARIBA). The alternative half-day tours will be No. 3, a visit to Lyme Hall (guides: Mr. A. H. Hope, MA, ARIBA, and Mr. J. E. Partington, MA, ARIBA); No. 4, a tour of the "Stones of Manchester,' designed for those who are interested in Victorian architecture (guide: Mr. Cecil Stewart, MA, FRIBA); No. 5 a tour of the new buildings of Manchester including a visit to Ringway airport (guides: Professor D. R. Harper, PhD, FRIBA, and Dr. R. B. Wood-Jones, PhD, ARIBA); No. 6, a visit to Jodrell Bank (guide: Mr. L. Massey, ARIBA). There will also be an optional visit to Chetham's Hospital, the oldest building in Manchester which accommodates the oldest blue-coat school in the country, the College of Clergy.

On the evening of June 17 the conference dinner will be held at the Midland Hotel at 7.15 p.m. for 8 p.m. The cost will be £2 12s. per person and tickets will be available for guests after all the demands of the conference members have been met. Informal visits are being arranged to places of interest on Saturday morning.

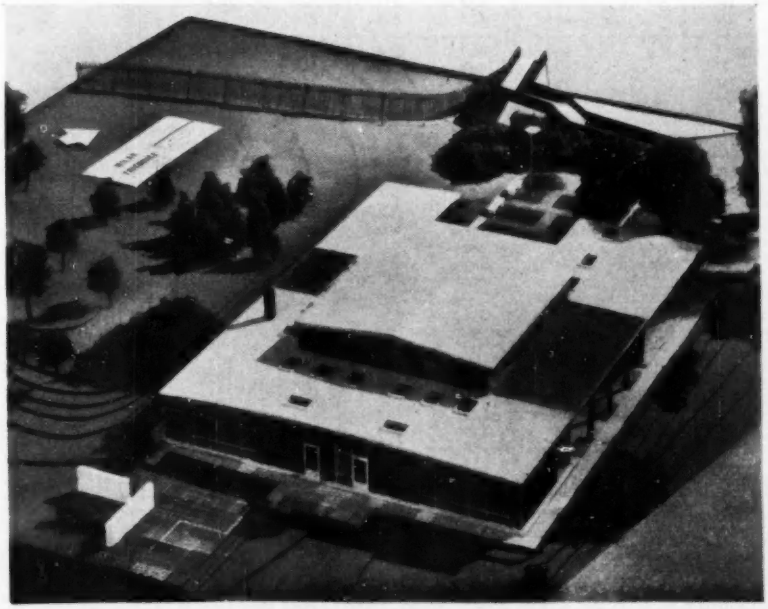
A Model English School Exhibit

For the Milan Triennale 1960

W. D. LACEY, ARIBA, AMTPI, Nottinghamshire county architect
C. D. PRODUCTIONS LTD., general contractors



East Elevation



THE THEME of the twelfth Milan Triennale is 'The Home and the School,' and the British exhibit of a 3-class primary school is intended to show that good design can be associated with low costs.

The school, consisting of 3 classrooms, assembly hall and ancillaries, will be erected in Milan Park. Construction is in the CLASP prefabricated system consisting of standard components manufactured on a programme basis, with the resultant economic advantage of industrial quantity production. The structure can be erected rapidly by a small labour force, and is designed to withstand ground subsidence caused by mining. After the Triennale the school will be presented to the Italian Government and erected on a new housing estate in Milan.

Suppliers:

Steel frame: Brockhouse Steel Structures Ltd.; *plinth units:* Evans Bros. (Concrete) Ltd.; *vitreous enamel panels:* Edward Curron Eng. Ltd.; *Naco louvres:* N. V. Appleton Pty. Ltd.; *Quicktho windows:* Quicktho Eng. Ltd.; *metal rooflights:* Hills (West Bromwich) Ltd.; *internal flush doors:* Allen Bros. Ltd.; *external door hinges and ironmongery:* Wilkes Berger Eng. Co. Ltd.; *heating and hot water installation:* Weatherfoil Heating Systems Ltd.; *sanitary fittings and waste traps:* Adamsez Ltd.; *cladding tiles:* The Maidenhead Brick & Tile Co. Ltd.; *Paramount partitions and plasterboard:* The British Plasterboard Mfg. Co. Ltd.; *plasterboard ceiling panels:* Gyproc Products Ltd.; *fibre glass insulation:* Fibreglass Ltd.; *w.c. cubicles and screens:* Flexo Plywood Industries Ltd.; *furniture:* Leicester Cabinet Ltd.; *furniture tops:* A. S. Stone & Sons Ltd.; *internal screens and door frames:* J. Searson; *paint:* Joseph Mason & Co. Ltd.; *glass:* Pilkington Brothers Ltd.; *Bourne plastic:* Floor Treatments Ltd.; *Unibond:* The Liquitile Supply Co. Ltd.; *venetian blinds:* Brockhouse Steel Structures Ltd.; *Eternit sheet:* G. R. Speaker & Co. Ltd.; *Feltwood block flooring:* Vigers Bros. Ltd.

Productivity and Prices

'The Builder' Quarterly Analysis of Trends

Specially prepared for 'The Builder' by Professor C. F. Carter, Stanley Jevons Professor of Political Economy, University of Manchester, and a former member of the Girdwood Committee on the Cost of Housing, from statistics kindly supplied by the Ministry of Works (Statistical branch).

COPYRIGHT: 'THE BUILDER'

THE VOLUME of output of the industry (which may be seen under 'gross output' in the fifth column of Table A) continued its rapid rise throughout 1959. In the last quarter its increase was sustained by rises in housing work and in repair and maintenance work. Usually repair work is the most static section of the industry, but during 1959 it showed a marked increase in material usage (which in the last quarter was over 20 per cent higher than a year before) and some signs of increase in productivity. These changes appear to have been caused by the Government's policy of encouraging the conversion and repair of houses.

New building work other than housing may now be levelling off, but it is still running at a very high level. The RIBA's statistics of commissions to private architects show a decline in office-building projects throughout 1958 and 1959, but there appears to have been a significant rise in commissions for buildings for public authorities, other than schools. Industrial buildings started in the first half of 1959 considerably exceeded those completed; industrial building approvals were considerably higher in 1959 than in 1958, and presumably are continuing at a fairly high level in 1960.

Housing work at the end of 1959 was running over 15 per cent higher than a year before—and stocks of bricks in January were less than a third of those in January 1959, although production was up by 10 per cent. Both local authority and private housing have shared in the boom, but it may well turn out that both of these will prove vulnerable to the further measures of credit restriction which are now expected. The increase in local authority housing work seems to have been carried out by an almost unchanged labour force, while housing work for private developers has attracted quite a lot of extra labour. There are differences here which would be worth further study; is the slower pace of local authority house-building (which is shown by the ratio of houses under construction to completions) to be counted as an unfortunate effect of labour shortage and faults of organisation, or as a sign of economical and efficient planning?

Minor changes in the statistics have smoothed out the series which attempt to measure labour productivity, but have confirmed the impression of a strong rise.

Comparing the fourth quarters of 1959 and 1958, net output per man-month was 10 per cent higher in housing work,

TABLE A.—OUTPUT OF THE BUILDING AND CIVIL ENGINEERING INDUSTRY IN GREAT BRITAIN (excluding direct work of Public Authorities)

	Actual value of gross output	Values at 1955 average prices			Indices, 1955 (average) = 100 (constant prices)		
	£ mn.	Gross output £ mn.	Net output £ mn.	Input of materials £ mn.	Gross output	Materials input per man-month	Net output per man-month
TABLE 1.— *New housing work*							
1956*	142	135	60	75	99	105	103
1957*	138	130	58	72	95	109	109
1958 I	125	117	52	65	85	111	108
II	132	122	53	69	89	117	110
III	131	122	54	68	89	113	111
IV	130	123	54	69	90	119	114
1959 I	132	**126**	55	**71**	92	124	117
II	140	132	59	73	**96**	**119**	118
III	146	**139**	**61**	78	**101**	**126**	122
IV	**150**	**145**	**64**	**81**	**105**	**131**	**125**
TABLE 2.— *New non-housing work*							
1956*	192	184	87	97	119	106	107
1957*	208	192	91	101	123	106	108
1958 I	210	190	90	100	122	106	107
II	221	196	92	104	127	108	107
III	228	202	94	108	130	111	108
IV	228	206	95	111	133	115	111
1959 I	225	**207**	**96**	111	133	117	114
II	239	217	101	116	**139**	118	116
III	243	**221**	103	**118**	**142**	**120**	**118**
IV	**239**	**221**	**104**	**117**	**143**	**122**	**121**
TABLE 3.— *Repair and maintenance work*							
1956*	100	93	63	30	101	107	101
1957*	101	90	62	28	98	105	100
1958 I	99	89	60	29	97	110	101
II	104	90	62	28	98	104	100
III	105	90	63	27	99	101	100
IV	107	94	64	30	102	110	101
1959 I	107	94	**63**	**31**	103	111	101
II	117	**99**	65	**34**	**108**	**123**	101
III	118	**99**	67	**32**	**108**	**112**	101
IV	**120**	**103**	**66**	**37**	**112**	**128**	**102**
TABLE 4.— *All building and civil engineering work*							
1956*	434	412	211	201	107	107	104
1957*	447	412	212	200	107	108	106
1958 I	434	396	202	194	103	109	106
II	457	408	207	201	106	110	106
III	464	414	211	203	108	110	107
IV	465	423	213	210	110	115	109
1959 I	464	427	214	213	111	118	111
II	496	**448**	225	**223**	117	**119**	112
III	507	**459**	**231**	**228**	**119**	**120**	114
IV	**509**	**469**	**234**	**235**	**122**	**126**	**117**

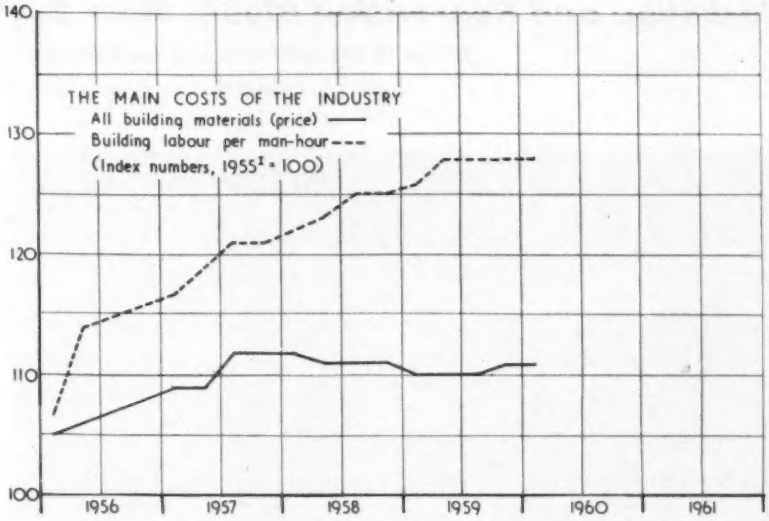
TABLE B.— PRICE COMPARISONS

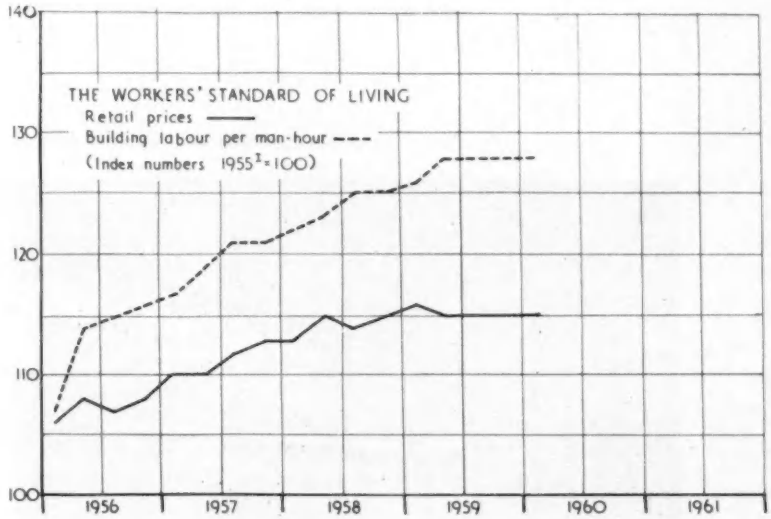
Index numbers (1955 First Quarter = 100) of the prices of:

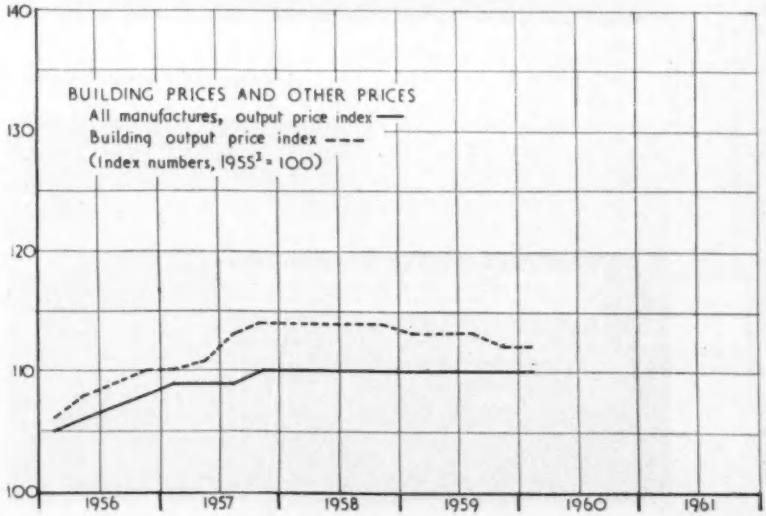
	All building materials	Materials for housing	Building labour per man-hour	Output price indices: All building	Output price indices: Housing work	Output price indices: New non-housing work	Manufactures, output price index	Retail prices
1953*...	97	96	93	97	97	97	99	96
1954*...	97	97	97	97	97	98	100	98
1955*...	102	102	104	103	103	103	101	102
1956*...	107	106	113	108	108	107	106	107
1957*...	111	109	119	112	109	112	109	111
1958 I	112	109	122	114	111	114	110	113
II	111	109	123	114	110	114	110	115
III	111	108	125	114	110	115	110	114
IV	111	108	125	114	109	114	110	115
1959 I	110	108	126	113	108	113	110	116
II	110	108	**128**	113	108	112	110	115
III	110	108	**128**	113	**107**	**111**	110	115
IV	111	108	**128**	**112**	**107**	**111**	110	**115**
1960 I†	**111**	**109**	**128**	**112**	**107**	**111**	**110**	**115**

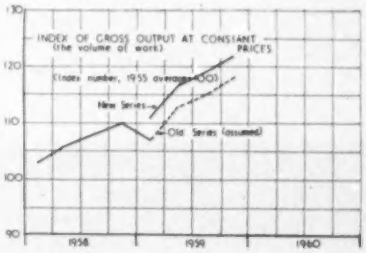
* Quarterly average. † Not Ministry of Works estimates.

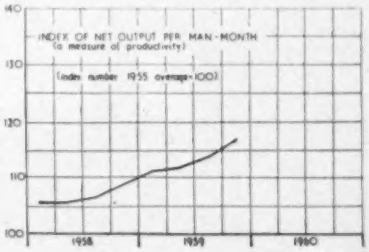
In both tables figures in **bold type** have been changed or added since last quarter.











9 per cent for other new work, 1 per cent for repair and maintenance, and 7 per cent for the whole industry. Some remarkable increases are shown in the series which record the usage of materials in relation to labour. The price statistics record a small increase in the average cost of materials, but this is likely to have been more than offset by rising productivity. (It would be interesting, however, to know more of the changes in overheads and other costs during recent years. Charges for maintenance and depreciation of plant and machinery must clearly have increased considerably; rising labour productivity is not just a matter of people working harder or more effectively—it also involves offsetting additions to costs.)

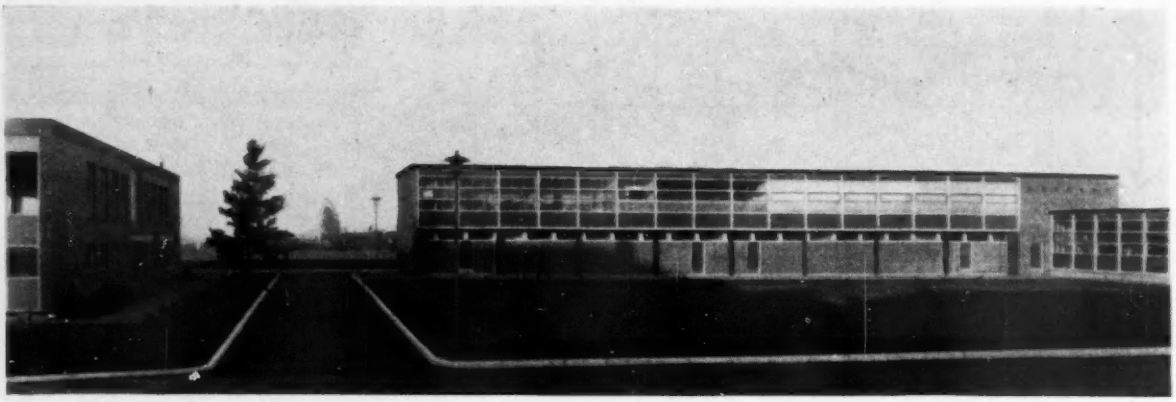
The output price indices have been revised, and now show a further small decline in the prices of building output during the second half of 1959. This is encouraging; but it will be interesting to know if it is a real change, to the benefit of owners, or a result of the necessarily indirect way in which these statistics are compiled. The falls in the output price indices (3 to 4 per cent from the peak, for new work) may be compared with the majestic constancy of the index for the general output of manufactures for home market sales, and with the equal constancy of the index of retail prices.

The effects of changes in Government policy, now aimed at restraining the attempted exuberant growth of the economy, are still not clear. Recent settlements for wages and hours, however, suggest that we shall be very lucky if price stability continues much longer—that is, unless industry shows an unusual willingness to absorb cost increases instead of passing them on. The rise in Government expenditure, and the support given to major industrial projects in certain areas, promise extra work for the building industry; the growing enthusiasm for the use of monetary measures is an unfavourable influence, for building is more easily affected by changes in the availability of credit or in interest rates than other industries. As usual, we must wait and see.

Workshop and Recreation Block, Moss Bay

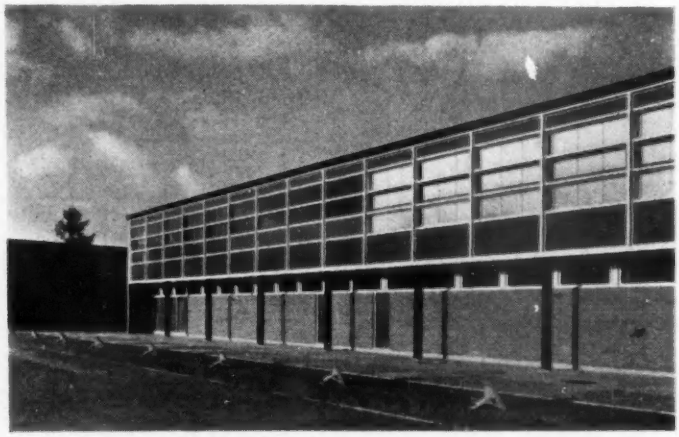
for the Workington Iron and Steel Company

JOHNSTON & WRIGHT, architects

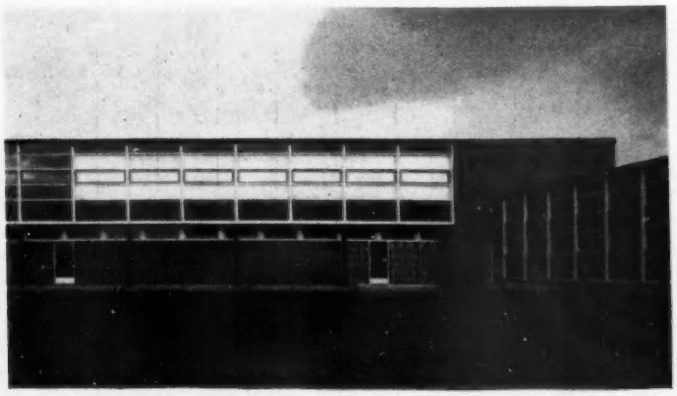


View across lawn. Workshop block is to right

View of dining and recreation block



Another view across the lawn



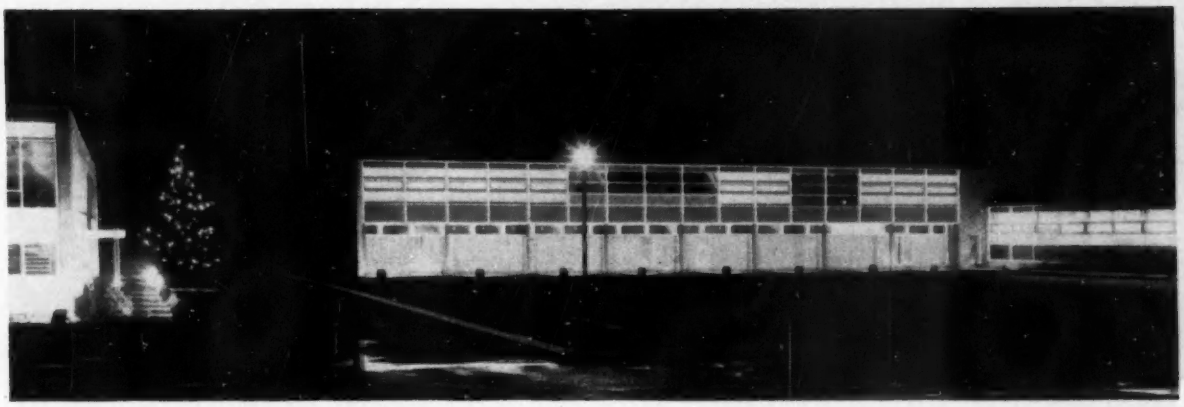
IN 1956 TO COMMEMORATE THE CENTENARY YEAR of the Bessemer steel making process and the founding of the Workington Hæmatite Iron Company Limited, HM the Queen opened the Bessemer Memorial School at Moss Bay, Workington, built by the Workington Iron and Steel Company branch of the United Steel Companies, Ltd. This school serves as a training centre for craft apprentices.

Within three years the workshop in the Memorial School was not adequate to cope with the success of new methods of craft training of apprentices using new techniques and machines, so the general manager Mr. T. S. Kilpatrick; the general works manager, Mr. T. Sanderson; the chief Engineer, Mr. H. Darnell and the Education Officer, Mr. H. Charlesworth, working in close co-operation with the architects, Messrs. Johnson & Wright, and the quantity surveyor, Mr. J. Telford Hart, produced a scheme within a strict financial limit for the development of the north side of the main entrance to the Moss Bay works. The scheme incorporated a single storey workshop block and a two-storey dining and recreation block.

The contractors tendering for this contract received in addition to the normal contract documents a programme of works from the architects covering a contract period of 37 weeks from March 30 to December 12, 1959. From a tender list of five contractors John Twiname Ltd., were successful, and it is to their credit that the contract was completed on time, and in accordance with the programme of works.

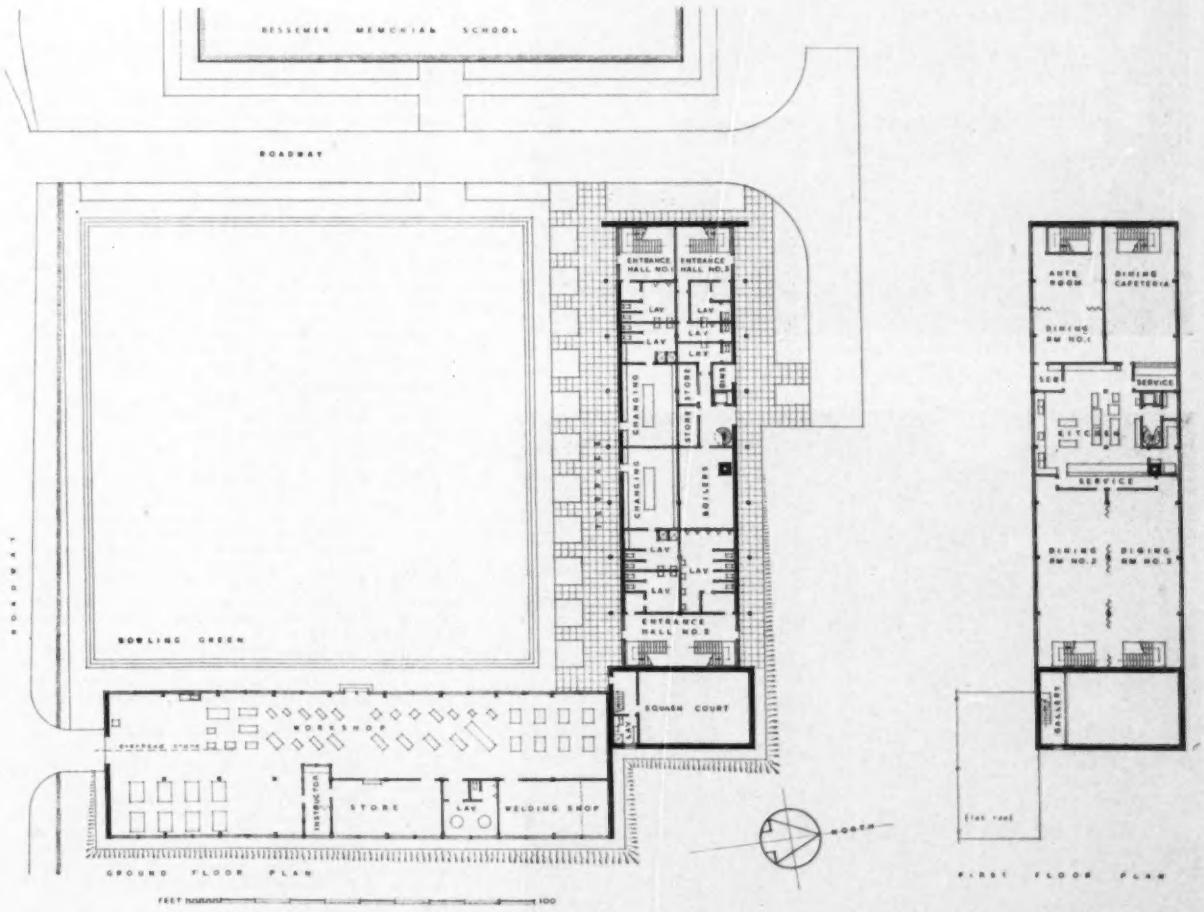
The facing materials were selected for their ability to withstand the severe atmospheric conditions and at the same time retain their texture and colour. The character of the steelworks is maintained throughout by using wherever possible, and clearly expressing, the various steel members of the building.

J. TELFORD HART, FRICS, quantity surveyor
DAVID MCNAY, clerk of works
JOHN TWINAME, LTD., general contractor



Night view. To left is the Bessemer Memorial School

GROUND AND FIRST FLOOR PLANS



Key to illustrations: T ¬ is shown the entrance hall No. 2. Centre: Ante room and dining room No. 1 in use as one. Below: Dining rooms 2 and 3 in use as one large hall

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Retirement

AT THE MEETING of the Hull Corporation works committee on April 20 it was announced that Mr. Andrew Rankine, CBE, ARIBA, the city architect, is to retire at the beginning of August. He has served the corporation for 30 years and was appointed city architect in 1939.

Coming Events

FRIDAY, APRIL 29

NATIONAL FEDERATION OF BUILDING TRADES EMPLOYERS.—Conference to discuss the question of contracting out of State Graduated Pension Scheme. Charing Cross Hotel, WC2. 11 a.m.

MONDAY, MAY 2

RICS.—'The Redevelopment of Decayed Areas,' by Mr. H. F. Alston. 12 Gt. George-st., SW1. 5.45 p.m.

TUESDAY, MAY 3

ARCHITECTS' BENEVOLENT SOCIETY.—Annual general meeting of subscribers and donors. RIBA, 66 Portland-pl., W1. 11.30 a.m.

INSTITUTION OF CIVIL ENGINEERS.—Symposium on 'The London/Birmingham Motorway.' Gt. George-st., SW1. 2.30 p.m.

RIBA.—Annual general meeting. 66 Portland-pl., W1. 6 p.m.

ELECTRICAL ASSOCIATION FOR WOMEN.—35th annual conference. The Leas Cliff Hall, Folkestone. 8.30 p.m. (until May 5).

WEDNESDAY, MAY 4

INSTITUTE OF BUILDERS.—75th Annual General Meeting. 48 Bedford-square, WC1. 2.15 p.m.

ART WORKERS GUILD.—Open meeting: 'Design in Relation to Trade-Marks and Symbols,' by Bro. David Caplin. 6 Queen-sq., Bloomsbury, WC1. 7 p.m.

SATURDAY, MAY 7

ARCHITECTURAL ASSOCIATION.—Visit to Ilford factory at Basildon. 34/35 Bedford-sq., WC1. Assemble 9 a.m.

NORTH WESTERN EDUCATIONAL ASSOCIATION FOR THE BUILDING INDUSTRY.—'The Design of Technical Colleges,' by Mr. Grenfell Baines. Wigan and District Mining & Technical College, Library-st., Wigan. 10.30 a.m.

A Hundred Years Ago

From The Builder of April 28, 1860

OUR POLICE COURTS.—Your remarks will have found an echo with many whose misfortune is to attend these dingy abodes. They form a standing disgrace to our legislature and criminal law jurisdiction. Take the most important—the wretched den in Bow-street—approached by a narrow single outlet, occupying the space only of a dwelling-house. An impressive tribunal truly in which foreigners may form a proper conception of the beauties of our police legislation, and the manner in which criminal and civil law elbow one another. The decent part of the community shrink from them, and the characters they are necessarily brought into collision with—the dregs of humanity. To them, therefore, the doors are as if barred.

Commodious new police courts are much wanted—planned with a central hall and waiting rooms, and with not less than four distinct means of approach and egress. The comparatively new police courts are ill-planned, and public convenience is in no way considered or cared for.

SUUM CUIQUE.

Competition News

Resort on the Costa del Sol

AN INTERNATIONAL architectural competition is to be held for the planning and development of the 'Zona Residencial Elviria,' on the Costa del Sol, Marbella, Spain. The project is to include the disposition and layout of civic centre, churches, schools, commercial enterprises, a hippodrome, golf course, polo field, public parks, etc., and the provision of any other such projects that participants believe convenient.

The first prize will consist of 5,000 sq. metres of land in the area which is the subject of the competition, 250,000 pesetas in cash and a round trip from the country of origin and a 30-day stay on the Costa del Sol; second prize, 3,500 sq.m. of land, 100,000 pesetas and 16-day visit; third prize, 2,500 sq. m. of land, 75,000 pesetas and 16-day visit. The assessors will be Pierre Vago, Gen. Sec. IUA, and four Spanish architects.

Applications by May 30 to Zona Residencial Elviria, Abartado de Correos num 220, Malaga, Spain, from where conditions may be obtained. Last day for entries, October 1. Award made, November 20, 1960. Deposit, 3,000 pesetas.

Competitions Open

* *The date in italics refers to the issue of* The Builder *in which fuller details appeared.*

MEDICAL TEACHING CENTRE, CARDIFF.—Competition arranged by the Board of Governors of the United Cardiff Hospitals and the Welsh National School of Medicine for architects resident in Great Britain, Northern Ireland and Eire to submit designs for a proposed medical teaching centre in Cardiff. Assessors are: Sir Percy Thomas, P-PRIBA; F. R. S. Yorke, FRIBA; J. H. Forshaw, CB, FRIBA, Provost A. Trevor Jones, MD, and Dr. A. R. Culley, CBE, MD. Premiums of £5,000 (to be merged with the fee), £3,000 and £2,000 are offered. Conditions from Mr. D. G. Morgan, secretary to the board of governors, United Cardiff Hospitals, Cardiff Royal Infirmary, Newport-road, Cardiff, to whom designs must be sent in by April 30, 1960. *March 27.*

OFFICES, DUBLIN.—Two-stage competition limited to Irish architects for offices for Irish Sugar Co. Ltd., Dublin. Messrs. Raymond McGrath, E. D. Buckley and Alan Hope, FF/RIAI assessors, with Lt.-Gen. M. J. Costello. Premiums: £350 for each of six architects admitted to final stage; £1,000 to winner. Stage I designs to Secretary, Irish Sugar Co. Ltd. by May 3; final designs by August 31; competitors' questions by March 15. Conditions, etc., from Secretary at 7 Clare-st., Dublin, on deposit of £5. *Feb. 19.*

DUMBARTON CENTRAL AREA DEVELOPMENT.—Architectural competition promoted by the Town Council of the Royal Burgh of Dumbarton for the design and layout of buildings to be erected as a connected piece of development in the centre of the Burgh together with the design of a new road bridge over the River Leven. The competition is open to registered architects resident in the United Kingdom. The assessor is Professor Robert H. Matthew, CBE, FRIBA, and premiums of £1,200, £900 and £500 are offered for designs placed first, second and third respectively. Last day for submitting designs is May 30, 1960; for questions March 7. Conditions from the Town Clerk (Architectural Competition), Municipal-bldgs., Dumbarton. Dep. £2 2s. *Feb. 26.*

DUNBARTONSHIRE COUNCIL OFFICES.—Two-stage competition open to architects practising or resident in Great Britain or Northern Ireland for County Council Offices at Crosslet, Dumbarton. Assessors: Messrs. F. R. Wylie, J. H. Napper and James Mottram. Premiums: £400 to each of six architects selected from first stage to take part in final. £1,500 additionally to winner. Conditions on deposit of £2 2s. from County Clerk, County-bldgs., Dumbarton, to whom first stage designs by July 16. Final designs by October 29. *Feb. 26.*

CATHEDRAL, LIVERPOOL. — Competition arranged by the Liverpool Metropolitan Cathedral Committee for architects who are British subjects, Commonwealth citizens or citizens of Eire to submit designs for a new Metropolitan Cathedral of Christ the King at Brownlow Hill, Liverpool. Cost £1 million. Assessors: The Most Reverend J. C. Heenan, DD, Archbishop of Liverpool; Mr. Basil Spence, OBE, ARA, PRIBA; and Mr. David Stokes, FRIBA. Premiums: £5,000; £3,000; £2,000. Last day for submitting designs: August 3, 1960. For questions; Dec. 15 last. Conditions from the Competition Secretary, Liverpool Metropolitan Cathedral Committee, 153 Brownlow Hill, Liverpool, 3. Dep. £2 2s. *September 25.*

HOSPITAL AT BOSTON, LINCS.—Two-stage competition open to architects resident in the UK and Eire for a general hospital comprising 474 beds and all ancillary departments. Assessor: Mr. John Murray Easton, FRIBA. Premiums: £500 to each of six architects selected from first stage to take part in final. £1,500 additionally to winner. Conditions on deposit of £2 2s. from the Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-rd., Sheffield, 10, to whom first stage designs by September 30. Final designs four months from date of instructions to proceed. Last date for questions is May 16. *March 18.*

REPLANNING OF TUNIS.—International competition for the development of the town of Tunis. Registration date was February 1 and the final closing date for the receipt of entries is in October. The assessors are: The Secretary of State; the Chief Engineer of Bridges and Roads; the Chief Engineer of Technical Services; M. Plinio Marconi (Rome), M. Antonio Perpina (Spain) and M. Pierre Vago (Paris). Mr. E. Maxwell Fry, FRIBA (London), and Hr. W. Hebebrand (Hamburg) are alternate assessors. Premiums of 5,000, 2,500, 1,500 and two of 500 dinars are offered. *December 4.*

NEATH CIVIC BUILDINGS.—Competition open to architects on ARCUK register for new civic buildings at Fairfield, Neath, for Neath BC and RDC. Registration date was March 12 and the final date for the receipt of entries is October 29. The assessor is Sir Percy Thomas; premiums of £1,000, £500 and £300 offered. Mr. D. King Davies, Town Clerk, Town Hall, Neath, or Mr. I. H. K. Thorne, Clerk of the Council, Orchard-cbrs., Neath. *February 19.*

Professional Announcements

The Lincoln office of MESSRS. A. E. THORNTON-FIRKIN & PARTNERS, quantity surveyors, has been moved from 10 Mint-street to new offices at 2 West-parade, Lincoln (tel.: Lincoln 26181 and 26182).

The London office of MR. PETER MCG. CORSAR, JP, FRIBA, chartered architect, surveyor, is now at 20 Grosvenor-place, SW1 (tel.: Belgravia 4581).

MR. ERIC G. LYNDE retired from active partnership in the firm of MESSRS. ERIC G. LYNDE & PARTNERS, quantity surveyors, of 41 Russell-square, London, WC1, on March 31, 1960. He is remaining with the firm as a consultant. The title and address of the firm will remain unchanged.

Sir George Earle Trophy

THE SIR GEORGE EARLE TROPHY for industrial safety achievement has been awarded to Associated Electrical Industries (Manchester), Ltd., formerly Metropolitan-Vickers Electric Co., Ltd.

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Growth of Main Contracting in Scotland

Need for Re-appraisal of a System which is not Traditional to that Country

BY OUR SPECIAL CORRESPONDENT

THE SYSTEM of main contracting, the normal method under which building works are carried out in England, is a relatively new development in Scotland. North of the border the traditional system is one of separate trades contracts, and only since the war has the main contractor system come into prominence. Anything new in any field of activity suffers from teething troubles, and it is suggested that the time is now ripe for a re-appraisal of the main contracting system in Scotland.

Sufficient time has elapsed since the war for it to be said that this method of contracting has settled down under normal conditions to become an important feature of the building industry in Scotland. Certain defects of the system as it has come to operate in Scotland have become apparent, and an examination of the system in the light of experience since the war would materially assist the efficiency and well-being of the industry.

The separate trades system, a system which has been found satisfactory over very many years of use in Scotland, is at present suffering from much adverse criticism mainly on the grounds of alleged inefficiency resulting from lack of co-ordination of the various separate trades contractors. The main contractor system is held up as the system to get the work done. 'Give us the contract and we will give you the works' could almost be the slogan of the main contractor. The Royal Incorporation of Architects in Scotland has, I understand, even gone so far as to say that the ideal is not just the main contractor system but the employment of one contractor doing all trades himself, hardly a very practical possibility.

Separate Trades System

Dealing first of all with the separate trades system, no system can be used to the extent that this has and still is being used in Scotland without its having very definite advantages. The various crafts of joiner, slater, plasterer, plumber, electrician, painter, etc., are very strongly and clearly defined in Scotland. In the south many of these trades are employed by the general builder. This is not the general position in Scotland where the separate specialist firm, or the firm combining two or three trades, is normal.

The average Scotsman with any knowledge of the building industry would claim that this is an indication and a result of higher craft skill. Be that as it may, such separate specialist firms are accustomed to working together with separate contracts direct with the client and under the direction and control of the architect and his clerk of works on the site.

The advocates of the traditional separate trades system in Scotland maintain that where the various contractors carry out their obligations to the full and the architect progresses and co-ordinates the work as he ought to do, a separate trades contract is bound to be cheaper and more efficient if only because there is no main contractor's percentage to pay. This will be denied by those who see in the main contractor system a system which gets the work done more quickly because the architect can hold one firm responsible for the whole works, and consequently the overall cost, so it is argued, is bound to be less.

Under a Cloud

Properly operated with the contractors and architect carrying out the functions and duties expected of them the separate trades system can be a very economical efficient method of contracting, but whatever the reason it is nevertheless at present under a cloud. The architect blames the difficulty of co-ordinating work with different separate contractors on one site. There are always bound to be one or more who let the side down. Firms today do not work together as they should. He would rather have one main contractor with whom he can deal than a miscellaneous group of firms with no proper co-ordination.

The separate trades firm will reply that it is the fault of the modern type architect. His father saw to it that the work of the separate trades contractors was properly co-ordinated. He will say that the modern architect is letting his heritage go to the consulting engineer on the one hand and the main contractor on the other. He is neglecting his position and in the process is allowing a perfectly efficient and economical system to go to the wall in favour of a more costly system, which at the most may save the architect a lot of work but certainly not his client any money.

These may be said to be the extremes of the opposing views, and on the old adage of no smoke without fire there is an element of truth in each. The separate trades contractor has himself to blame to some extent for he has not always carried out his contractual obligations to the full. He might even have allowed his work to slide and taken men off the job to carry out various more remunerative private works during the course of the contract. The architect too would be well advised to examine his professional status today with the twin pincers of the consulting engineer and the main contractor hovering over him.

The concern of many in the building industry at the development of the main contractor system is not just because of the fact that it is growing in Scotland. While they may prefer the separate trades system and are sorry to see its eclipse on account of what they consider is a failure of the modern generation in the industry to carry it out properly, they would not be averse to a properly regulated and controlled main contractor system. The concern arises not on account of the system itself but because of the way in which it is developing in Scotland.

Architects are feeling their way and many contractors are having to get used to the fact that they no longer have direct contact with the architect but have to go through a main contractor. The architect must, however, realise that acting as he does for the client and with his interests as a first consideration he cannot foist everything on the main contractor, but must ensure that the whole business starting with the tendering and working right through the contract to its completion and final payment must be so organised and supervised that his client gets proper value for his money in an atmosphere of healthy competition. The main and sub-contractors must work in a spirit of mutual trust and co-operation.

The builder firms now taking over the role of the main contractor have a new-found position of importance and freedom of action which doubtless they like very much. Instead of being just another separate trades contractor they can now invite tenders for various sub-trades and can cast their net as far and wide as they feel inclined. Whereas the separate trades contractor previously put in one tender direct to the architect where he knew its sanctity was respected he now finds that as a sub-contractor he may have to tender to half-a-dozen or more main contractors. Many use his tender as a proper competitive offer and include him in the bid for the total works, but unfortunately it is possible for a main contractor merely to use it as a yardstick to check his own prices or give it to his own sub-contractor.

Even if the successful main contractor includes the sub-contractor's tender as part of his offer for the contract the sub-contractor may not be sure the job is his. Architects do not generally nominate or approve sub-contractors, although they usually require the main contractor to provide a list of the sub-contractors he intends to employ.

'Hawking' the Sub-Contract

The result is that the main contractor can, if he wishes, then proceed to 'hawk' the sub-contract. Some main contractors take the view that it is just a matter of buying in the cheapest market in exactly the same way as they would buy their own materials. Furthermore, when the contract is under way the architect does not always advise the sub-contractor of the amount included in respect of his work in an instalment to the main contractor, nor does he require the main contractor to give evidence that he has

paid the appropriate amounts to the sub-contractors before another instalment is granted.

The aim of the industry must be that the tendering procedure and contractual conditions should enable the client to get value for his money in proper competitive conditions and ensure that contractors, both main and sub-contractors, compete for work and receive payment under terms and conditions where malpractices are not possible. The industry cannot be a fully efficient and healthy body if this is not the case. The point at issue is whether it is right and proper for the main contractor to have such freedom of action that he can, if he so desires, do the things mentioned in the previous paragraph. Can the industry say in all sincerity that this is part and parcel of the competitive spirit which is its lifeblood and from which its customers benefit?

Conclusion

My view is that there is a very definite need for all parties in the industry in Scotland to sit down and give serious thought to the manner in which the main contractor system is developing. The suggestion is made that there should be a Code of Tendering Procedure stating the way in which the system should operate, and it should be a matter of discussion whether or not it would be desirable for all sub-contractors, subject to the right of the main contractor to do the work of any particular trade himself and tender accordingly, to tender direct to the architect and for nomination to be practised to a far greater extent.

One final point is the inadequacy of the Scottish General Conditions of Contract to cover the main contractor system. These conditions have clauses referring to sub-contractors, but there is no such thing in Scotland as a comprehensive form of sub-contract detailing the conditions to apply to sub-contracts. This is a deficiency which ought to be made good by negotiation between the organisations representing the various interests within the building industry.

Societies

South-Eastern Society of Architects

Plea for 'More Fun in Church Architecture'

A PLEA FOR LESS SOLEMNITY and more fun in church architecture was made by CANON FENTON MORLEY, Precentor of Southwark Cathedral, on Monday night. 'Churches,' he said, 'were the result of an ancient partnership between architects and ecclesiastics when they were designed to be instruments of spiritual education. Too often today they are a functional environment with a cross and altar to distinguish them from places of secular entertainment.'

Canon Morley was speaking at the annual dinner and dance of the South Eastern Society of Architects, held in the Henry Florence hall of the RIBA, with the President, Mr. R. A. Cooksey, TD, FRIBA, in the chair. Over 200 members and guests were present.

A sense of humour was a feature of much medieval architecture, added the speaker, who was responding to the toast of the Guests, proposed by Mr. S. W. Harris (chairman of the Kingston chapter). Often one would find in the vaulting bosses for the congregation to gaze on during a dull sermon, and frequently these represented one of the seven deadly sins in a ridiculous character, puncturing lust, avarice or gluttony by holy laughter. 'But maybe this theme has been lost because we have psychiatrised the seven deadly sins,' he continued. 'Pride has been turned into self-fulfilment, anger into stress, avarice into incentive, envy into insecurity, sloth into glandular inertia, gluttony into metabolic disorder, and lust into emotional tension. I should like to restore this sense of humour to modern church architecture, but perhaps the times are against it.'

Homes for Leisure

If the church had the job of giving people the moral and spiritual equipment for living at peace with their neighbours, architects had to make it physically possible for them to do so. The reduction of noise in the modern flat was one need; the creation of homes in which people who in the next forty years would certainly be working no more than 30 hours a week could usefully spend their leisure in using their minds and in enjoying relationships was another.

'This may demand a revolution in domestic architecture and I hope you will persuade the building societies to support you in planning new homes where people will have room as well as time to live creatively,' concluded Canon Morley.

The toast of the RIBA was proposed by MR. COOKSEY who said that the Institute and its allied societies for the past two years had been in the process of putting their domestic house in order. Like the Commonwealth, the organisation was rather loosely articulated and it was the need for overhaul which had taken so much thought. 'The vast amount of work put in both at Portland-place and in the Allied Societies' areas is at last nearing completion,' said Mr. Cooksey, 'and I, for one, am optimistic enough to feel that the outcome will be an organisation which not only will work well and more efficiently but will strengthen the ties of loyalty that bind us together in the spirit of true democracy.'

Architecture as an art was beginning to have news value in the national Press but there was still much ignorance about architects and the way they worked. 'That is why, in the middle of June and coinciding with the Manchester conference a series of excellently designed posters will be displayed for a week throughout the country calling attention to the services which architects are able and willing to give. I hope the experiment will be a great success,' concluded the President.

Responding, SIR HUGH CASSON, speaking as a Vice-President of the RIBA, welcomed the company to 'this dingy hall.' Any suggestions for dealing with it and particularly with the cork walls would be gratefully received by his wife [Lady Casson is to be responsible for the redecoration. Ed.]. Referring to the President's remarks about the new constitution, he said that the RIBA and the Allied Societies' relationship was something that might have been investigated by Freud; there was a wonderful love-hate relationship between them. It was always said, of course, that the RIBA were a load of deadbeats and this he, after 20 years among them, knew to be true! But he would be surprised if they didn't make out.

Among those present were:

Mrs. R. A. Cooksey, Mrs. S. W. Harris, Mrs. Fenton Morley, Lady Casson, Sir Richard & Lady Nugent, Mr. Gordon Ricketts, Mr. & Mrs. R. W. Paine, Col. and Mrs. J. B. Marks, Major & Mrs. E. R. Heathcote, Mr. & Mrs. W. E. Rice, Mr. & Mrs. J. H. M. Weston, Mr. & Mrs. P. Corsar, Mr. & Mrs. J. A. Brownrigg, Mr. & Mrs. Duncan Scott, Mr. & Mrs. P. B. Kenyon, Mr. & Mrs. M. Tauté, Mr. & Mrs. Ian M. Leslie, Mr. & Mrs. J. Godfrey-Gilbert, Mr. & Mrs. F. Greenen, Mr. & Mrs. Geoffrey Swayne, Mr. & Mrs. J. B. Ratcliffe, Mr. G. I. C. Highet and Mr. D. W. Joel.

Faculty of Architects and Surveyors

London Film Show and Birmingham Annual Meeting

LONDON BRANCH: On April 4, the Branch held a meeting at which two films were shown. Both in colour and produced by Messrs. John Laing & Son, Ltd., they were introduced by the firm's senior contracts engineer, Mr. D. P. Weeks, BSc, AMICE, and were entitled 'Raising the Roof' and 'The Motorway.'

BIRMINGHAM AND DISTRICT GROUP: The annual general meeting of the Group was held on April 5 at Birmingham. The chairman, Mr. Vincent Lambert, FFS, member of council, welcomed the president, Mr. Sydney Clough, FRIBA, the secretary Mr. H. M. Soar, FCCS, and a large gathering of members. In his address Mr. Lambert said that the Group was now working well and looked forward to another year of solid progress.

The following officers and committee were elected for the ensuing year: *chairman:* W. B. P. Bruges; *Immediate Past Chairman:* V. Lambert; *Vice-Chairman:* L. J. Nokes; *Hon. Treasurer:* F. H. Smith; *Hon. Secretary:* L. A. Chipperfield; *Committee:* R. Cliff, B. R. Dowdall, J. King, N. H. Pode, R. V. Wilkes; *Hon. Auditor:* W. E. Ballinger.

Members of the Faculty interested in the activities of the Group should contact the Hon. Secretary, Mr. L. A. Chipperfield, AFS, 'Dharbanga House,' Foxland-avenue, Penn, Wolverhampton.

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Visible Change in Cities

From Assembly Rooms to Assembly Lines

In a paper to the Town Planning Institute on April 6 Mr. David Thomas, MA, ARIBA, FRGS, discussed the influences under which, especially over the past one hundred years, there has been a marked change in our way of life and a visible change in our cities. Among these were general adult literacy, women's emancipation, increased mobility, machine productivity and the impact of advertising. The president, Professor J. S. Allen, BArch, FRIBA, was in the chair. Extracts from the paper are given below.

VISIBLE CHANGE IN CITIES is something which never can be reliably measured, but I think it can be understood, and must be understood, in terms of what is visible and appreciable. Buildings can be visibly compared either as products or as investments or as works of art. Buildings are an important part of urban environment and all citizens are affected by them.

Assuming that the threat of activities in neighbouring sites and roads has been attended to by the town planning service, then the appearance of buildings and other sensual aspects of the citizen's immediate environment will gain in importance to him. If for no other reason, then because his attention is no longer distracted from these aspects, thus we see the tasks of planners and architects as complementary, as indeed all the land-use professions seem to me to be in their intention.

As a result of proper use of planning powers by many here present, the possibilities of town expansion are diminished and the stability or improvement of land value within cities is enhanced. Investors would not be replacing speculators in urban centres if this were not so. I have seen no evidence that architecture can prosper under speculative conditions. Nor, for that matter, can environment do so. Thus the present possibilities of urban renewals and new town establishments are in no small degree due to you.

Changes in our means and modes of transport—the motor among them—have wrought many changes in our urban surroundings. Several of these have been functional changes of the city. That is to say they have been changes of the same order as those wrought by the application of military engineering and sanitary engineering to cities. These functional changes have become visible in cities in the same way that functional change in living creatures is often apparent. But I do not think that these are the only changes that chartered planners ought to consider as influence upon their work.

Exoteric Influences

Feelings—I mean here especially the feelings of citizens—are important. They are influential in municipal matters and they change both formal and functional contents of cities. The spontaneous migration of 1½ million from central parts of London to new suburbs and ribbon developments in less than 20 years has transformed London, visually and functionally, quite as much and quite as quickly as Haussmann's planned works in Paris.

The environment that we (the developers, the salesmen, and the customers and planners combined) produce must suit our subjective as well as objective moods, or we shall run away from it as other generations have done. Many aspects of our environment are at present immeasurable and must perforce be shaped with feeling as well as thought. But as persons we are humanly limited and cannot fail to be personal in shaping their environment and ours.

I suggest that the following exoteric influences are important: general adult literacy; women's emancipation; increased (social and geographical) mobility; enhanced individual speeds and altered postures; machine productivity; consequent persuaded consumption; consequent appeal to, and exploration of man's irrational parts; changing personal concepts and perception.

Cities as Environments

The formal content of a city includes the outward appearance of its buildings; also the outward appearance of its vehicles and more anonymous equipment. To your profession the formal content of the city is not more important than the functional content. The light and the shadows, the spaces, the activities and the movements are doubtless important to you also. For all these form part of the citizen's total experiences to which you must pay some attention. And—as all these have physiological as well as aesthetic influence—this is as true for the aesthetically insensitive and the aesthetically specialised as it is for the sensitive fellow.

The formal content of any product (whether a building or not) comes from its designer's total experience, which includes among many ingredients, consciously and unconsciously remembered stimuli. As Sir John Summerson has said, how it comes to the designer is a subject of which little is known.

One way in which the formal content of an environment may be changed is by modifications of the products which are constituted within it. Modifications of these products, especially buildings, occurs when man attempts to answer new practical problems. For example, the obvious and relatively early improvements in buildings were the flue and second storey. Both of these directly affected the formal content of the building which then assisted mankind to meet the conditions of urban life.

The application of the wall and the gate were similar early advances applied to cities. The application of the drain affected the performance of cities but it also affected their appearance. All three devices were means towards the ends of freedom from attack and freedom from disease. Referring to the time-scale of urbanity which I have set up, we can surmise that the application of systematised transportation and (more recently) of unsystematic motor transport, are also early changes in the long story of towns which stretches before us.

One of the disadvantages following from these developments has been the increased risk of collision and congestion. Dissatisfaction arising from living close to and on a level with the noisy, noisome and sometimes violent in the streets (scenes such as Hogarth drew) was mitigated by the second storey. The streets have become noisy, noisome and violent again! This second storey was itself made possible by the flue. The implication is obvious! The danger of fire was increased, but was reduced later by the replacement of overhanging eaves with flush parapets and the substitution of flush walls for the oversailing storeys of medieval buildings.

There are three points which I wish to make about our concepts: first, they are influences; second, they are important influences; third, they are changing.

Lacking any precedents for the design of railway stations and departmental stores when he first invented them, Man relied upon the concept of the classical temple, the triumphal arch and the city gate. He made them look like something he knew and thought he understood; he relied upon concepts which on this occasion served him not too badly.

I remember (when lecturing in West Berlin in 1953) seeing most of the European entries for the competition for a Memorial to the Unknown Political Prisoner. Without my referring to names or to classification of entries by nationality, it was easy to see which of the competing nationalities had no immediate impression and thus no personal concept of political imprisonment.

Those who are interested in the fine arts will be aware of the idea of 'process' which the fine artists have been trying to communicate to us since the turn of this century. One example of this is the sculpture by Boccione: 'Bottle Evolving in Space.' Done in 1911-1912, this anticipates and illustrates subjectively much of what we now accept in the objective world.

Separation and Elevation

Boccione arouses our interest in the process of production rather than in the product. He presents the product to us from several points of view simultaneously. All these views would occur within split seconds of each other during the production. This kind of perception is, I think, becoming more generally operative. When in motors our posture and eye level are unprecedented. When they move our vision is a 'tunnel vision' with our minds assessing our movement by reference to marginal sight. The edges

move: only the centre gets bigger! Buildings, vehicles and other stimuli flash by.

In my opinion there are signs that we shall come to terms with the motor vehicle by getting off the ground once again, at least in some parts of our cities. It is not just a matter—as Le Corbusier supposed—of keeping the ground free. It is a matter of keeping ourselves free and safe to 'stand and stare' sometimes.

With display windows, commercial fascias and footpath-showcase lighting, what is needed is visual separation as well as visual elevation. The 'Son et Lumière' projects, sponsored by 'The Daily Telegraph,' have already illustrated other possibilities for visually separating the different parts and levels.

Production and Consumption

Until—if ever—automation and other applied sciences make production, distribution and consumption independent of co-operative human effort, towns will continue to be necessary as the prime facility for ensuring competition, emulation and specialisation. I do not assess the motor car as an invention of such an order, though it will surely alter both formal and functional contents of our cities. The motor could not have been made and cannot now be made without towns as bases for its producers and distributors, its users and repairers.

Putting aside cultural activities, we see that it currently serves the following practical activities: prevention and control of disease; distribution and consumption of superfluities and luxuries; the consumption of products whose major virtue is not that they provide subsistence but that their consumption creates employment. Made by the tool-making animal Man, towns also make practicable the production of machine tools and the supply of power to them.

The term 'Assembly Line' in my title contains a hint of the processes implicit in all this: the queue of people waiting to get into the machine—at bus stops; the queues of vehicles waiting to 'peel off' to their drivers' destinations; the escalators; the elevators; the production belt; the anticipation of next season's demand for goods which we all see when we pass central shopping enclaves.

The Impact of Advertising

All these are processes of which few citizens are objectively aware. The aim now is to make man's and woman's needs consequent upon production—instead of the contrary aim, which seems natural and customary to us. It is, therefore, no great wonder that a whole industry—the advertising industry—has grown up during this first flush of literacy.

When you see Reg. Butler's 'Memorial to the Unknown Political Prisoner' you may remember how it preceded in time the appearance of the leggy television console. The magazine which advertises women's clothes also shows 'elegant furniture,' and 'elegant cars' and 'elegant' buildings as backgrounds making glamorous the humans in the Kodachrome environments.

Behind the magazine is the advertiser, behind the advertiser is the market, and behind the market lies the assembly line and all the consumer goods which are displayed (out of season) all along the lower storeys of our central business districts. Ah, me! the art of 'civic design' and the parades of urbane personages to and from the assembly rooms will never be the same again! For the 'elegant' building shown in the advertisement becomes accepted building style (whether it be architecture or not) because the dress advertised was accepted.

The aesthetic of the assembly room age, perfect for its squirearchy, was rooted in the soil, the very columns were porticos and colonnades reaching down into that soil where man's productivity had rested so (relatively speaking) very long. Now the aesthetic of today lies in the assembly line, with its heart and basis the production belt. The City could become a dismountable exhibition of products and passing fancies. This profession is the custodian of environment and not of products. We can enrich our own humanity, or despoil it, as we will!

Discussion

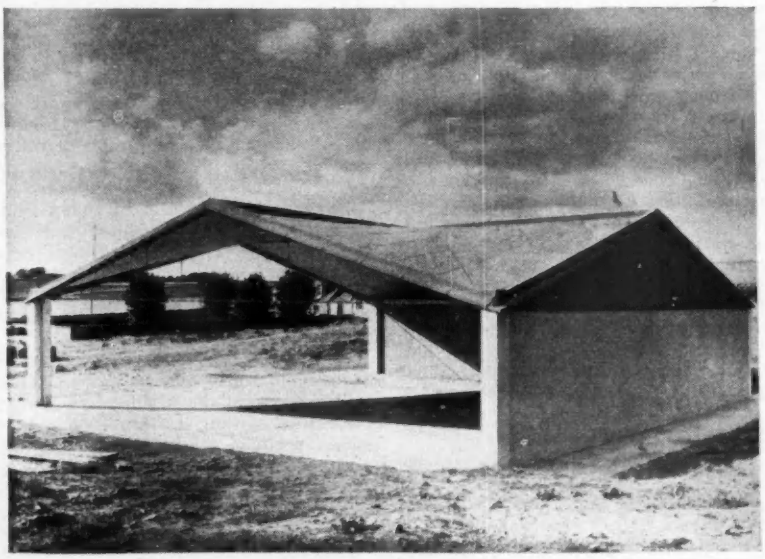
MR. L. W. LANE, ARICS, senior planning officer, LCC, said Mr. Thomas's paper had taken them outside their offices and had enabled them to see the city as a changing organism in relationship to themselves and their fellow human beings. He felt that as planners they tended, after a time, to see towns in terms of plans and models which they studied in their offices. They must be conscious all the time, as they went about the city, of what their responsibilities were.

Seconding the vote of thanks, MR. P. W. MACFARLANE recalled that more than once Mr. Thomas had referred to the emancipation of women and the great changes it had wrought in social life and the social life of our towns. The thing that had struck him most in town planning abroad, Mr. Macfarlane commented, was the incredible difference between towns where women had a say in things, and where women were not emancipated. There were differences in design, fabric colour, in the display windows, the lighting of the shops and even the cleaning of the streets.

In the Middle East, for instance, where women were still largely excluded from public life, one had to plan for an entirely different environment. There were none of the attractive streets or shops with bright lights, large dance halls, fine, clean restaurants or attractive swimming pools. There were only dingy buildings in which the men spent most of their time, leaving the ladies at home to look after the children.

Referring to what Mr. Thomas had called 'aristocratic planning,' Mr. Macfarlane said that in some countries there was a tendency for one man, such as the Lord Mayor of a particular town, who wished to implant his idealism before he left, and create a monument to his activities—large buildings, a splendid situation and a great show. Its modern counterpart was the enormous dual carriageway running up to some great airport with practically no traffic on it.

One had continually to emphasise that in planning abroad one was planning for the needs of the common man, and that meant a rather different conception of building and lay-out altogether. The dignity of man and the needs of the common man were not yet understood in many parts abroad.



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London Master Builders' Association

Luncheon to Lord Mayor

THE ANNUAL LUNCHEON to the Lord Mayor given by the London Master Builders' Association was held at the Savoy Hotel, London, last Friday (April 22), with the Association's President, Mr. E. J. Cook, BSc, MICE, MIStructE, FIOB, in the chair.

Proposing the toast of the Lord Mayor and the Corporation of London and the Sheriffs, MR. COOK said that the builders of London had again the opportunity of honouring the Lord Mayor, which they had done each year since 1946.

The Lord Mayor would, he was sure, be interested to know that the NFBTE had been honoured with an invitation to send a representative to the 150th anniversary celebrations in Paris of the Chambre Syndicale des Entrepreneurs de Maconnerie Ciments et Beton Arme in Paris. 'My wife and I are looking forward to representing the National Federation at these celebrations next month,' said Mr. Cook, 'and particularly to being able to convey to the builders in Paris the good wishes of the master builders of London.

'You, my Lord Mayor, hold the eminent position which, to the builders of London, is the embodiment of democracy. Many of your predecessors have risen from the most humble circumstances as did Dick Whittington to attain ultimately to your high office. Likewise in our history it is with pride that we claim it has been, and still is, possible for our young craftsmen to rise, in time, to the highest offices in our companies. If this great country of ours is to be able to meet successfully the fierce and mounting competition from younger nations throughout the world it is our duty to see that the native ability of our people is developed to its fullest possible capacity.

'This is, my Lord Mayor, a challenge to management at all levels in industry, a challenge which calls for the fundamentally Christian trait of selflessness. It is an indictment of management if, for any reason, an employee is denied the opportunity to attain to the full potential ability that lies within him. I am proud to be able to tell you, Sir, that our Association is active, not only in the field of craft training, but also in training for management. Enlightened management is surely the key to this country's industrial survival.'

Dangers of Specialisation

THE LORD MAYOR, in the course of his response, spoke of the dangers today of intense specialisation. He believed, however, that there was still a need for knowing the whole job of building in the round. Many people in the building industry today, he suggested, did not know the full potentialities of the materials with which they had to deal, but he believed that better results would follow if they had a better understanding of such matters. Nevertheless, in the building industry today they had a great advantage over the old time craftsman in that they had a much wider choice of materials with which to achieve their purpose.

SIR HARRY HYLTON-FOSTER, QC, Speaker of the House of Commons, responded on behalf of the guests.

Among those present were:

The Rt. Hon. Lord Ashcombe, Mr. Sidney J. Barton, Sir George M. Burt, Captain H. W. Dennis, Major S. V. Dickins, Sir Robert Fraser, Sir Isaac Hayward, The Rt. Hon. Lord John Hope, Sir Godfrey W. Mitchell, Sir Edward Muir, Mr. D. E. Woodbine Parish, Group Capt. G. H. Pirie, Ald. and Sheriff Hubert P. L. Pitman, Sir Graham Savage, Dame Mary Smieton, Messrs. E. P. G. Wright, H. J. W. Alexander, Philip Allen, R. H. Arnold, B. G. Arthur, H. J. Ball, A. W. Cleeve Barr, P. H. Bates, F. W. Beazley, Hubert Bennett, M. W. Bennitt, L. J. Bradshaw.

J. Clapp, L. H. Colls, H. E. Comben, Cdr. E. Kenneth G. Gooch, D. F. Cox, J. T. Crouch, Eric Cutler, E. G. Dean, R. M. Douglas, C. E. Elliott, C. R. English, H. J. Falkus, N. S. Farrow, A. J. Filer, K. C. F. Foster, P. Fotheringham-Parker, J. S. Galbraith, J. M. A. Gerard, Paul Gilbert, Nigel Hannen, C. A. Hart (Director-Designate LMBA), Desmond Heap, D. McCowan Hill, Gerald A. Hill, Graham Holliday, L. J. Holloway, D. G. Howard, R. W. B. Howarth, G. H. A. Hughes (Director), W. James, E. L. Jones, J. Maurice Laing, W. K. Laing, Ian M. Leslie, A. J. Whitfield Lewis.

N. C. Macnamara, A. R. Mais, D. C. Mallam, R. F. Mansell, Henry A. Mealand, A. G. Miles, Oswald P. Milne, D. A. Neale, J. R. Newman-Booth, A. A. Part, K. J. Pearce, H. T. Piesse, Edward Playne, S. J. Proops, D. A. G. Reid, W. E. Rice, Gordon R. Ricketts, Alan Pitt Robbins, D. C. C. Roberts, C. E. Rogers, K. P. Rush, H. Spragg, R. E. Stenning, G. O. Swayne, D. H. Thornton, J. W. Tiller, F. H. Towle, L. W. Walden, R. S. Walker, F. A. Wallis, F. Leslie Wallis, Ronald Ward, W. G. Wermerling, R. S. Williams, H. T. Woolcott.

'Architecture Today' 1961 Exhibition

Conditions of Entry Issued by RIBA

THE ROYAL INSTITUTE OF BRITISH ARCHITECTS and the Arts Council of Great Britain are arranging a selective exhibition showing work by British registered architects at the Arts Council Gallery, 4 St. James's-square, London, SW1, in July, 1961, coinciding with the Congress of the International Union of Architects which is meeting in London at that time. Particulars and conditions of entry are as follows:

1. The exhibition will be highly selective and aims at showing the best work of the past ten years. Size will be no criterion.
2. Examples for inclusion in the Exhibition will be chosen by the Selection Committee (whose decision is final) from the material submitted for preliminary consideration. The Selection Committee consists of: The Hon Lionel Brett, MA (Oxon), FRIBA; Sir Hugh Casson, MA (Cantab), RDI, FRIBA; Mr. John Killick, ARIBA, Mr. John Piper, Hon. ARIBA; Mr. J. M. Richards, CBE, ARIBA.
3. British registered architects, firms of architects, architects' departments, may submit up to three examples of their work.
4. Buildings must have been completed since 1951; projects of special interest designed since 1951 will also be eligible.
5. Those who wish to have work considered for inclusion must apply for an entry form(s) which must be completed and accompany each submission. Details of method of submission will be given on these forms but briefly—material to be submitted (including drawings) must be in the form of photographs which must be fully referenced in order that the organisers can order prints direct from the photographers. Brief notes on the examples will also be required.
6. Applications for form(s) should be made to the RIBA not later than June 30 (envelopes marked 'Architecture Today Exhibition' please). Each submission must be accompanied by a completed form.
7. Material for preliminary selection must reach the RIBA between October 1 and 31, 1960.

New Guildford Theatre

Design Submitted to Planning Authority

GUILDFORD THEATRE'S board of directors has submitted to the planning authorities the design by Messrs. Scott, Brownrigg and Turner, a firm of local architects, for a new theatre to be built on a riverside site near the old mill opposite Millmead. The estimated cost of building and equipping the theatre at present values would be about £100,000.

The plan outlined to the board by Mr. John Brownrigg, ARIBA, is for a theatre to seat just over 500 on one floor in a steeply-raked auditorium with a large stage under a tower to enable the 'flying' of scenery. This main central building will have a lower building of two storeys running along two sides of it. On the ground floor will be the foyer, with a booking office, cloakroom and lavatories, and, opening on to it, a restaurant and a bar. On the floor above will be the dressing rooms, administrative offices, clubroom and (at the back of the auditorium) the control room.

Versatile Arrangement

The auditorium will funnel straight into the stage area without a conventional proscenium. It will be possible to play with a false proscenium, or, by sacrificing a row of seats, to have either a forward extension of the stage on an apron, or an orchestra pit. The stage will be 60 ft. wide, with a wing of 50 ft. Its depth will be 33 ft. without the apron; the back wall will be a permanent cyclorama.

The scenery store and workshops will be in the old mill. By letting this building to the theatre the Water Board have enabled the price of the scheme to be reduced considerably.

Rationalising Domestic Lighting

British Lighting Council's Evidence on Housing Standards

IN COMMON with other organisations whose work influences the design and equipment of domestic premises, the British Lighting Council was invited to present evidence to the Housing Standards sub-committee of the Central Housing Advisory Committee of the Ministry of Housing and Local Government.

The council stated that although the annual consumption of electricity for lighting had doubled since the end of the war, it was estimated that there were still only 350 units per household. This was very low, and in view of the greatly increased realisation of the benefits of good lighting and the growing tendency to regard it as a significantly important part of home furnishing, the main reason why more was not being used appeared to be lack of the proper facilities. It was felt that the present-day importance of catering for personal expression must be recognised, and that this could only be achieved by concentrating development on the extension of the socket outlet system.

Recommendations

The Council recommended that local planning authorities should revise their thinking on lighting, and require all new dwellings, whether built by the local authority or privately, to have an installation at least up to the standards recommended in Clauses 302 and 303 of the 1948 British Standard Code of Practice, and preferably to that proposed in Clause 305.

Installation deficiencies in many existing homes must be recognised and remedied, and only fully qualified and competent people should do the installation work required. It was recommended that an adequate lighting installation be included among the 'standard amenities' for which the House Purchase and Housing Act empowers local authorities to give financial aid. It was also recommended that all building societies should extend facilities granted for the improvement of older property to cover the modernisation of the electrical installation.

An adequate lighting installation, states the evidence, should be regarded as an integral part of all dwellings. At present only about 1 per cent of total building cost is allowed for the lighting. This figure should be increased to about 3 per cent, and electrical installations should be designed to cater for adequate lighting requirements for many years ahead.

Problems of Progress in Industry

Two New DSIR Booklets

'WHAT do trainees have to learn?' 'How can they be helped to learn?' A booklet published on April 19, No. 6 in the DSIR 'Problems of Progress in Industry' series (HMSO, price 2s.) deals with these two basic questions facing anyone concerned with training manual operatives. In doing so, it shows how the results of four recent studies can help industry to find the answers.

The booklet emphasises the need for careful planning before setting up systematic training, for which the three key points are:

Observe how the experienced operator does the job and analyse in detail the mental and physical components of his performance;

Fit the training method to the job. The research indicates ways of speeding up and improving learning efficiency;

Get expert advice. The design and introduction of training schemes should be supervised by a specialist with psychological training.

The Older Worker and his Job

WITH THE PROPORTION of older workers in industry increasing it is vitally important for our economic progress that their skill and abilities be used to the utmost advantage.

This is one of the outstanding points in 'The Older Worker and His Job,' a review by the DSIR of recent research in this field. The booklet, written by Hilary M. Clay, is No. 7 in the 'Problems of Progress in Industry' series (HMSO, price 1s. 3d.) It is a popular and brief account of recent research, and in particular of the studies reported in 'Ageing and Human Skill,' by A. T. Welford.

The review summarises the advantages that come with age such as increased experience, accuracy, loyalty, reliability. It also describes the changes, both mental and physical, which decrease individual efficiency.

Suggestions for coping with the problems of ageing workers include modifying the job or a complete change of occupation. But the author emphasises that research is far from complete and that full co-operation is necessary between those studying the subject and people in industry.

Planning Course for Builders

Four Weeks' Training at Manchester

FOR the convenience of building firms in the North and Midlands, the Building Advisory Service, in conjunction with the Manchester Association of Building Trades Employers, is arranging an instructional planning course to be held in Manchester.

The course starts on June 13, and is designed for potential planning officers of building firms. It will be of four weeks' duration and the difficulties arising from the absence of staff for this length of time have been, it is hoped, somewhat reduced by running the course in three periods of one week, two weeks and one week, with a week's break between each to enable the students to return to their firms.

Full details of the course can be obtained from BAS, 82 New Cavendish-street, London, W1, or The Secretary, The Manchester, Salford and District Building Trades Employers' Association, 2 Conyngham-road, Manchester, 14.

Code of Practice

The Design and Construction of Reinforced and Prestressed Concrete Structures for the Storage of Water and Other Aqueous Liquids

CP 2007 : 1960

THIS CODE is a complete revision of the one originally published by the Institution of Civil Engineers in 1938 and extended by the issue of two supplements in 1949 and 1950. Both supplements, one on the use of prestressed concrete and the other dealing with bituminous jointing materials, have been included. Recommendations refer mainly to reservoirs and tanks for the storage of water, but are generally applicable to the storage at normal temperatures of aqueous liquids and solutions which have no detrimental action on the concrete.

The new Code, price 12s. 6d., is closely related to CP. 114 and CP. 115, dealing with the structural use in building of reinforced concrete and of prestressed concrete respectively, and the requirements of these publications are assumed to apply except where superseded by new requirements.

Particular attention is given to features of design and construction specially important in water-retaining structures.

Although the use of nominal concrete mixes is still permitted for ordinary reinforced concrete work, provision is now made for the design of special mixes according to the strength required and based on two alternative standards of quality control. Permissible stresses are given for the two main design criteria: the avoidance of cracking and adequate strength. Special attention has been given to the provision and preparation of construction joints and of the various types of movement joint, i.e. contraction, expansion and sliding joints.

Copies of this publication may be obtained from the British Standards Institution, Sales Branch, 2 Park-street, London, W1. Postage extra to non-subscribers.

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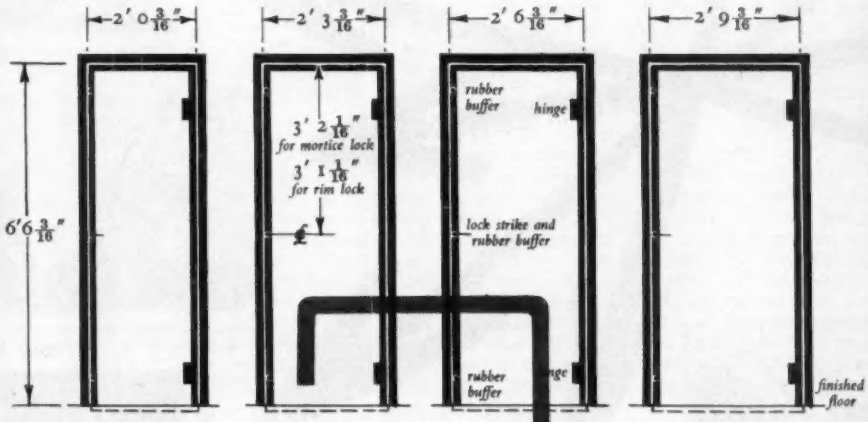

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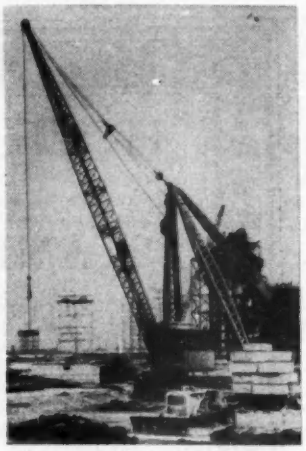

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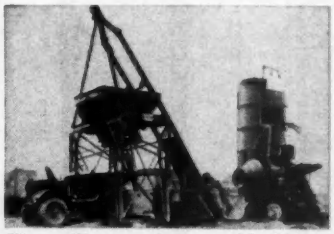

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Winds of Change in the Industry

How Do They Affect the Operatives?

From a Labour Correspondent

WE SEEM TO BE PASSING THROUGH a period of re-assessment of the instruments we have fashioned for controlling the affairs of building. So, too, are we questioning the established methods of training our personnel. Barely a week goes by without the publication of a paper or a speech which attempts a 'new look' at the way we manage things. All very admirable of course, and one has to admit that the presentation of these does not actually call for revolution. Added together, however, it is clear that they amount to some pretty dramatic changes.

The fresh and inquiring mind of Mr. Peter Trench (who took over the Directorship of the NFBTE last year) has led him to express opinions which are bound to arouse opposition. This in spite of the gentleness and courtesy of the terms he employs and the almost lethal charm of his personality. Apparently he wants to see the emergence of a new kind of builder; one who has been very highly trained and conditioned and who can take his place among the honoured professions of the land. This élite would acquire a status and prestige which hitherto has been the exclusive prerogative of the architects (and perhaps the quantity surveyors have secured a little of the fall-out). Presumably the chief means of reaching this plateau of dignity will be the Institute of Builders, a body which has been energetically trying to elevate its standing during the past few years.

This is the aim then: a lift up in the social scale for contractors, their directors and senior staff (the symbols of such new status to become more elusive and therefore more valuable); and a demand for equality, both in authority and prestige, 'vis-a-vis' the existing professions. Mr. Trench is aided and abetted in all this by some of the 'new' men in the building scene including the brilliant and industrious Mr. David Woodbine Parish, his 1960 President.

Joint Education

In his March paper to the RIBA Mr. Trench laid stress on the need for joint education for the managerial and design strata. Evidently he envisages a staff college where standard courses would be shared by the existing professions, the civil engineers and the builders. Common training would induce common outlooks and values; it would break down the 'apartheid' which threatens to fossilise the higher echelons of building, and it would vouchsafe a new and higher status for building executives of the future.

Coupled with this is a call that the RIBA amends its requirement that no architect can be allowed direct interest in the profitability of a building concern. There should be '. . . . an interchange of staff between architect and builder.' This, of course, would be confined to the new 'élite.' There is to be an open recognition of the stratification which exists among contractors—the small jobber, the local family business, the medium sized provincial firm, and, glistening in splendour on the top, the national contractors. No great change is envisaged in the lower layers but the highest will no longer need '. . . . independent watchdogs of high moral standing.' The new personnel will be of higher calibre than hitherto; their code of ethics will attain such nobility as to eliminate the very possibility of chicanery; there will be no more financial rabbit-punches discreetly delivered in dark alleys. 'Ergo,' the designer—the independent defender of the building owner—will find his chivalrous role superfluous. At best he will discover himself a member of consortia—an equal among equals.

Missionary Zeal

Those architects who assert that the designer must be 'the leader of the team' will not be entranced by this picture of the future. Yet there is no doubt that Mr. Trench and his fellows earnestly believe they are right. One might even say that they conceive the whole set of ideas as a mission. The old rip-roaring days of the frontier are gone; the territory no longer needs marshals who are quick on the draw; law and order and the benefits of civilisation have arrived.

The trades unions will have a rather mild interest in all this. These goings on upstairs will be seen rather as a re-arranging of the furniture. The faces they see on the other side of the negotiating table will presumably be the same. It would be nice, of course, if they were to seem more cheerful and less frustrated, and if the 'new look' does that it would make everyone happier.

But the wind of change seen by the leaders of the NFBTE also includes the operatives. The future envisaged in this sector is almost unnerving in its sweep. Here again we are to have 'élites' and lesser 'élites.' There is to be a '. . . . re-assessment of user requirement.' This might be effected through one of the universities or the Building Research Station, but it must be done soon. The whole basis of the present-day apprenticeship and technical training is challenged. It is, for instance, a waste of time to teach craft apprentices skills in ancient methods of building which will never be used. Moreover, some crafts are inherently less skilful than others: painters can be trained in far less time than, say, bricklayers, and by inference their reward should be less. Demarcation squabbles between the crafts have got to cease; the best way to effect this is by questioning whether a narrow craft training is suitable to modern needs. Could there not be a 'multi-skilled' craftsman for certain ranges of construction work? Are there not varying degrees of skill and responsibility required? Should there not be an industrial job evaluation to assess and establish these?

It seems that the problems of the Trades Unions in this swiftly changing world are not to be viewed without sympathy. They have a 'tremendous job' of adjustment. Essentially they have been built on the requirements of the 19th century, and basically they have not altered their structure. Unless they consciously do so their influence will gradually wane and eventually they will become merely vestigial; no longer capable of representing the operatives or negotiating the labour bargain. Therefore they must bestir themselves and think on similar lines to the 'new' leaders among the employers, and agree to a new pattern of differentials and the creation of something like the stratification which already exists among contractors. There would be in this set up glittering prizes (not all in actual money) for the new 'élites.' These would be as far removed in status from the old moleskinned trousered operatives of a century ago as the modern builder is from his illiterate forbears. As a firm is known by the men it keeps, so is an industry. If building is to be lifted up several notches in the social scale it will need to redeploy its forces and elevate some of its manpower. The unions will have to fit into this new design, for it will happen whether they like it or not.

One feels that in answer to this startling and brilliantly argued set of postulates the trade unions will take their marbles home. Their organisations are like great oaks in the prime of their lives, not wilting tomato plants, so they will say. If anyone starts using an axe to the base of the trunk there will be trouble: prune a few branches, yes; but nothing more drastic than that. And what, they may ask, is this hullabaloo about demarcation disputes? The number of actual stoppages is infinitesimal when compared with those which are caused by incentive bonus, yet this was supposed to provide the industry with the differentials so beloved by the employers. Hasn't the NFBTO established its own demarcation machinery, and hasn't this machinery functioned without a single failure so far?

Apprenticeship

On apprenticeship the unions may well have strong criticisms of the failure by the employers (a) to recruit sufficient, and (b) to secure universal indenturing under the existing scheme. If it is not possible for the employers fully to operate a simple scheme of this character, what chance have they to cope with the complications of 'job evaluation' and the so-called 'multi-skilled' training which has been so excitingly discovered? To attract the right type of young man to the industry needs first of all, the prospect of full employment, and second, a high standard of pay and conditions. Those whom are needed to grapple with new skills and the supervision associated with such new skills will emerge naturally from craftsmen who have received a standard train-

ing in the technical colleges. True there are changes needed in the syllabuses, but these, too, must come easily and naturally from the actual developments in the industry.

Your trades union leader is a pretty earthy character; to him the fundamental need is a degree of stability. The proposals under discussion are hardly likely to produce that. It is all very well for some people to go running into the night with a deafening cry of 'Eureka!' but others have got to get on with the job of laying the bricks and fixing the timber. In return they expect rewards and conditions with some relation to the effort and skill involved. It seems a little high falutin' to talk about tearing down and ripping up the structure of the crafts in the name of progress when we are dragging our feet on the hours question. Heavens above, we can't even get agreement on how to control bonus!

Loss of Membership

It is a moot question as to whether the loss of membership among the unions is due entirely to advancing techniques. The AUBTW, for one, is convinced that the main reason is the vast scale of bribery and corruption which has prevailed in recent years. This ranges from thumping great 'spot' bonuses and unlimited overtime to the harlotry of labour-only sub-contracting. It is not a little disconcerting for the district organiser to be told by his members that they can extract more money from the employer than can the union. If the unions have been weakened, it may be due to the lack of discipline among the employers and the willingness of some to pay high whilst voting against increases in the standard agreement. If leaders of the employers cannot command allegiance in these matters how are they to act as midwives to the birth of the golden age?

But when all the arguments are exhausted, and we stand silent before the picture, there remains the deep belief that the chief strength of the crafts lies in their common rates and conditions. Break into that principle, stratify the ranks, and the bases of loyalty would crumble. What kind of respect would the NFBTE (or for that matter the FMB) have for organisations of workpeople which had lost their internal unity in a plethora of differentials? The present difficulties of the unions would be very small beside such a situation; they might even be destroyed.

Dangerous Experiment

By all means let us open our minds to an exchange of views and ideas, but let us remember that we are dealing with organic things, not lines on drawing boards. Maybe it is true that the unions are a little old-fashioned in their outlooks—time will tell. Meanwhile it would be a bit daft to experiment with mutations: they are very often quite egregious.

In any case it can hardly be denied that the major crafts will be needed in great numbers over most of the industry for a very long time to come. Probably the greatest developments and economies will occur off-site in an increasing prefabrication, as indeed, Mr. Trench himself has said. The unions would like the employers to consult with them on this question and thus anticipate demarcation disputes rather than to look shocked when a new material or technique is thrust upon a particular job and strife commences. There are, in fact, a host of problems and issues which require joint discussion and action—and this is the nub—*within* the existing framework of the industry. It would be so much nicer for everybody if a little progress could be seen where it is possible instead of all this waking of the neighbours in the middle of the night with world-shattering discoveries.

Mechanical Handling Exhibition

Many New Conveyor Systems to be Seen

THE MECHANICAL HANDLING EXHIBITION, which will be opened at noon on Tuesday, May 3, by the Rt. Hon. Reginald Maudling, President of the Board of Trade, promises to be the largest and most diversified ever held. It will occupy over 500,000 sq. ft. in the great hall of Earls Court and will run until May 13.

THE GEORGE COHEN 600 GROUP LTD. will be exhibiting some of their range of Jones cranes, including two machines which have not been shown publicly in this country before. One is a mobile crane with a maximum capacity of 20 tons, lifted on a 30 ft. jib at a radius of 10 ft. The other is a mobile crane having a truck type, long wheel-base chassis employing only one prime mover which powers all crane movements as well as the road wheels. Another company exhibiting cranes is R. H. NEAL & CO., LTD., who will include the largest and most recent addition to their range—the NL 250. This crane, mounted on a specially designed heavy duty crane-carrier, has a maximum lifting capacity of 25 long tons at 10 ft. radius on a 25 ft. centre strut jib. The use of a torque converter gives extra torque for the heaviest loads and automatically increases the hoisting speed for lighter loads.

An Automatic Overhead Conveyor

Amongst the many exhibitors of conveyor installations will be GEO. W. KING LTD. Their principal exhibit will be an overhead conveyor, arranged for fully automatic operation, in which the load trolleys are propelled by the moving chain although not attached to it. Using switch wheel corners, individual loads or a number of loads may be automatically switched from one conveyor to another. They may also be stopped at specified stations on any conveyor without stopping the chain or the movements of loads elsewhere on the system. In watching the load trolleys' progress, visitors will be able to see the complete flexibility of an installation of this type. The company will also be showing a new electric chain pulley block for the first time. This is a development of an existing range and incorporates a number of major improvements. Another company in the conveyor field is THOS. W. WARD LTD., who will include their 'Fluid-lift' pneumatic handling system. This is for handling powdered and granular materials and operates on small quantities of air and large amounts of materials under pressure. The system to be shown will be a closed circuit system comprising twin storage hoppers with rotary lock feeders. The principal unit is a rotary air pump for supplying the right amount of air at sufficient pressure. The material is fed through special air locks into the pipe system, which is made of steel tube and for exhibition purposes pyrex insertions will be incorporated. The material is then pumped at comparatively low speed to the hopper.

Recent Developments

C. H. JOHNSON (MACHINERY) LTD., are showing two new developments in material handling. One is a mobile conveyor with a welded steel boom of tubular construction and a new type of bottom drive mounting. The other is a mobile automatic bagging and weighing plant, which has been designed specifically for the retail coal trade. Standard power shovels can feed the hopper and there are built-in de-slacking arrangements, including a disposal conveyor which piles the slack clear of the plant in a position to be picked up by power shovel. The company will also be showing some of their range of dumpers as will E. BOYDELL & CO., LTD. The accent at this stand, though, will be on loaders of advanced design, including one model which combines a 50 degree roll-back bucket action with a pry-out force of 7,100 lbs. This machine can obtain a heaped load from a stockpile at a single 'bite,' so obviating the necessity for repeated ramming.

Bankruptcy in Building

High Proportion of Birmingham Failures

ONE IN SIX of the 184 people who went bankrupt in the Birmingham district last year were in the building trade. Figures given in the annual report of the Official Receiver for the Birmingham district show that the number of receiving orders made was 23 more than in 1958. In Birmingham the number went up by six to 73, at Coventry, by one to 23, and at Wolverhampton, by nine to 21. At Walsall, the number fell from 16 to eight.

The commonest reasons for failure were shortage of capital, taking too much money out of the business, underestimating on contracts and losses of motor vehicle contracts. Total unsecured liabilities of the bankrupts amounted to £470,906.

Alright; so it's a wonderful building. I can see that. (But I bet it's more fun outside.) And it's a wonderful floor—TRINASCOLIN linoleum flooring by Limmer & Trinidad. I *know* that. (But I *still* bet it's more fun outside). Oh, come *on* . . .

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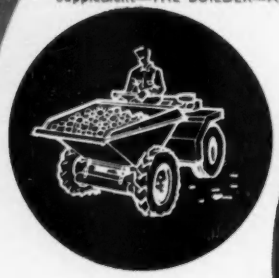

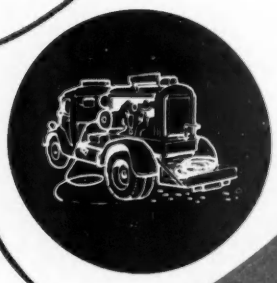

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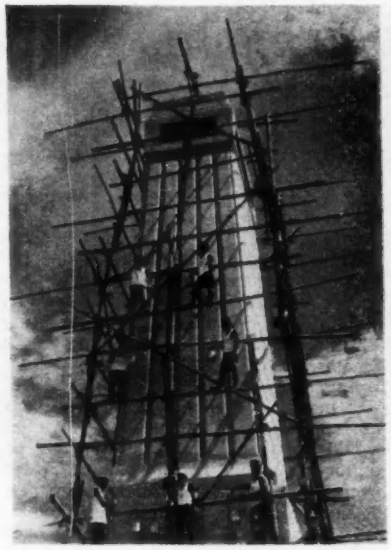
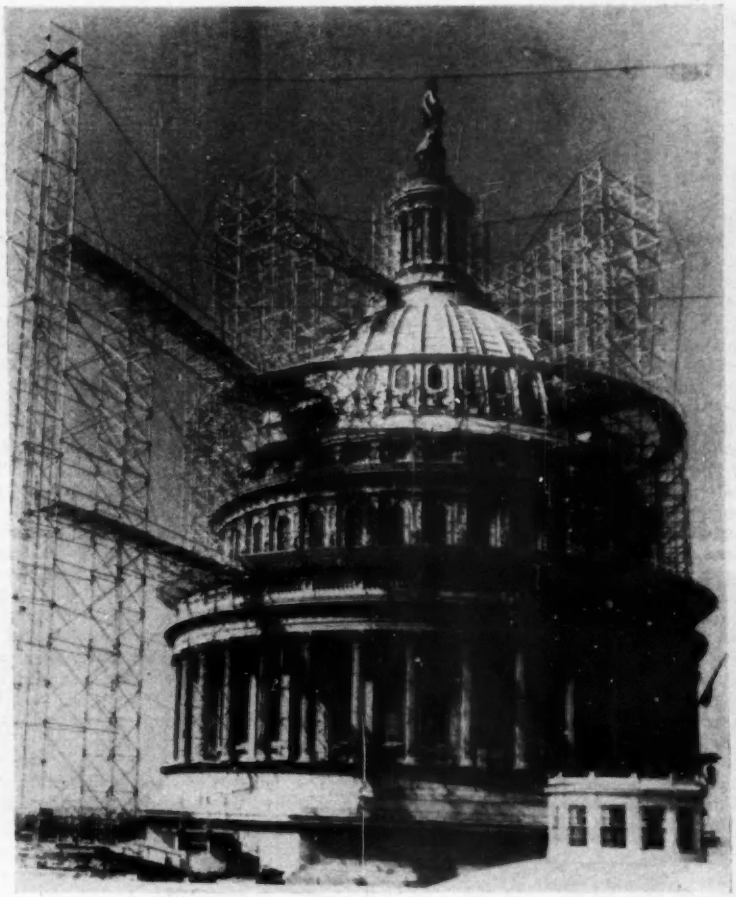


Siamese painters on the Memorial Bridge, Bangkok, using bamboo scaffolding



The Capitol Dome, Washington, shrouded in steel scaffolding

East and West

Contrasting Scaffolding Methods

From a Correspondent

THE TWO PHOTOGRAPHS on this page offer a striking contrast between scaffolding methods. The larger illustration shows the 100-year-old cast-iron dome of the United States Capitol in Washington which, after a century of exposure to the elements, is now being cleaned and inspected.

An initial difficulty which had to be overcome was the inability of the dome and its supporting foundations to carry the loading of the necessary scaffolding. This led the architect to the Capitol, Mr. J. George Stewart, to prohibit any part of the weight of the scaffolding from being imposed on the dome.

The problem was overcome by the Universal Manufacturing Corporation who designed and erected a self-supporting scaffolding system. Towers of tubular steel material were erected at four equidistant points around the perimeter of the dome. From these towers ran trusses of tubular scaffolding, reaching out to the tholus, the cupola-shaped structure on the top of the dome. From these truss-members was suspended scaffolding which allowed access to any point on the surface of the dome. To resist the cantilever pull of the trusses, cables were run from the top of the scaffolding towers down to the scaffolding at the springing level of the dome. Hoisting of materials, chiefly sand used for the cleaning process, was by a scaffolding supported hoist which had access ramps to the various levels of the dome.

The Cleaning Process

Cleaning of the cast-iron dome was by sand-blasting. The compressed-air supply was provided at ground level by large compressors and then carried up the scaffolding in six-inch diameter rising mains. Small diameter distribution mains then conveyed the air to individual working areas.

A Siamese Contrast

Recent renovations to Memorial Bridge, the biggest and most important crossing of the Menam River in Bangkok, included the repainting of the concrete pillars which serve as adornments as well as supports for the metal construction. The smaller picture shows some of the Siamese painters, perched on bamboo scaffolding, posing for the cameraman from footholds which would make most European building workers turn pale. The paint being used on these pillars is a British product, Pammastic plastic emulsion paint, manufactured by Blundell, Spence and Co., Ltd.

Planning Refusal for Two Flats

'Employ an Architect' Suggests Minister

THE EMPLOYMENT of an architect to prepare a fresh design was suggested by the Minister of Housing and Local Government in upholding the refusal of Scarborough Town Council to give planning permission for two flats at Highfield, Scarborough.

The appeal by Mr. W. H. Mansfield had been heard in January. Mr. W. G. Morgan, Scarborough Deputy Town Clerk, said then that siting the flat-roofed flats in the predominantly Victorian locality of Highfield would be like putting a Picasso in a heavy gilt frame.

The Inspector conducting the inquiry had reported to the Minister that he did not think that much thought had been given to the appearance of the proposed building. It might be harsh criticism by the Council, but the flats would be as out of place among good contemporary architecture as among the Victorian houses of Highfield. It was possible that a well-designed flat-roofed building would harmonise with nearby houses; a pitched roof building would be more appropriate.

The Minister, in his decision, has intimated that both the appeal design and that accompanying the outline application were unsuitable, and made the suggestion about the employment of an architect.

Road Over Rail in London

British Road Federation's Memorandum to Minister

A RING MOTORWAY to encircle London some two to four miles from the centre, that could, it is claimed, be built almost entirely above or alongside existing railways, is advocated in the memorandum on 'London Road Programme Proposals,' which the British Road Federation has submitted to Mr. Ernest Marples, Minister of Transport, details of which were announced on April 20.

The most recent road proposals for London, says the memorandum, are the 20-year programmes contained in the report of the London Roads Committee published in July, 1959. In the opinion of the Federation these programmes in their present form fail to offer value for money but, more important, do little to introduce the essential segregation of one class of road user from another. It is inconceivable that either of these programmes can fulfil London's traffic needs.

The Federation has noted and supports the Committee's recommendation that comprehensive and continuing traffic engineering studies should be undertaken. It notes too that the Committee considers that the idea of roads over or alongside railways has some merit.

There is, the memorandum continues, a surprising unanimity among the experts on the need for an encircling ring motorway some 2-4 miles from Charing Cross. It is the view of the Federation that the corner stone of new and improved highways of London must be a ring motorway from which radial motorways would extend to join existing and future motorways and major all-purpose routes radiating from the capital. Such a ring is also needed to serve as the rim to which future cross link motorways could be joined. In addition, linked with M.1, it would provide direct access from the industrial areas of the Midlands to the dock area.

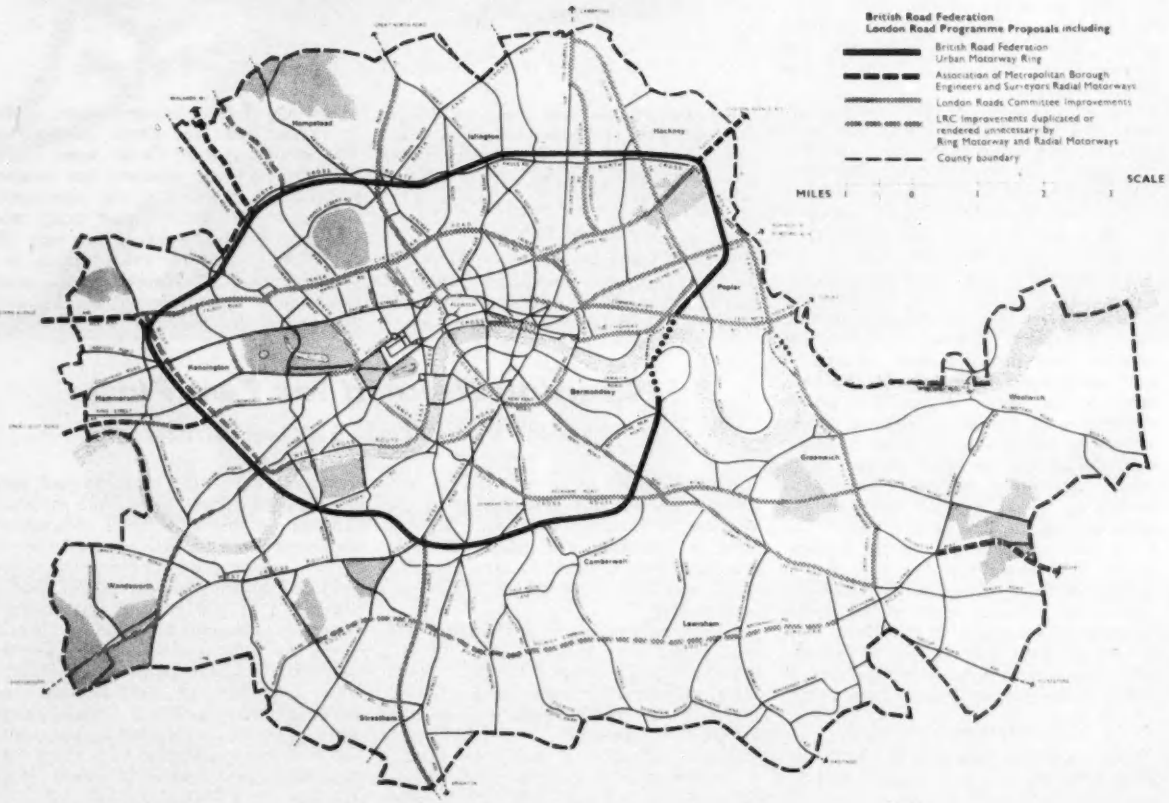
The British Road Federation therefore proposes that the larger of the two 20-year programmes put forward by the London Roads Committee should be amended to include a ring motorway built for the greater part of its length over or alongside railways; that motorway radials connecting with the various inter-city motorways and trunk routes which converge upon London should be included and the whole undertaken as a 15-year programme. The essential difference between the Federation's and the London Roads Committee's proposals is the inclusion of the ring and radial motorways.

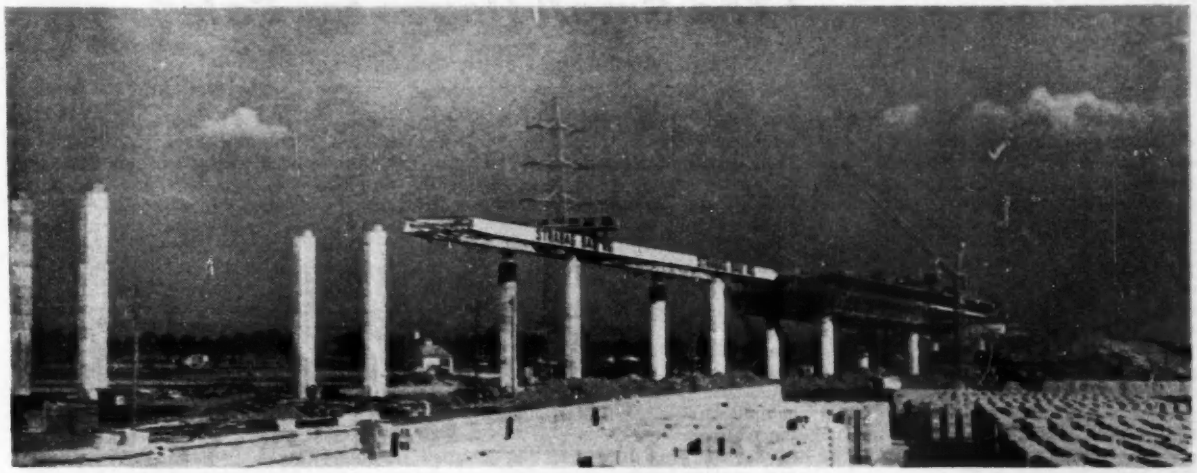
The Federation has investigated the possibility of building a ring motorway in this location using space over or alongside rail track. By so siting the motorway a further severance of communities is avoided and a number of attractive possibilities offer themselves. Modern civil engineering techniques make the proposition feasible and indeed a structure similar to the one the Federation has in mind is already planned in the Birmingham area between Oldbury and Smethwick.

Employing this form of construction a ring motorway some 25 miles long could be built of which only about five miles would need an alternative route. The motorway would require a new bridge over the Thames at Fulham and a new Thames tunnel at Rotherhithe.

It is estimated that such a road over railways, with dual three-lane carriageways, would cost not less than £2½m. a mile, including necessary intersections. A tunnel under the Thames with dual three-lane carriageways, would cost £21m. The total cost for the 25-mile motorway would therefore be some £83½m.

The Federation states that the suggested ring motorway together with the radial routes would duplicate or render unnecessary nearly 20 per cent of the London Roads Committee programme and would reduce the cost to some £165m.





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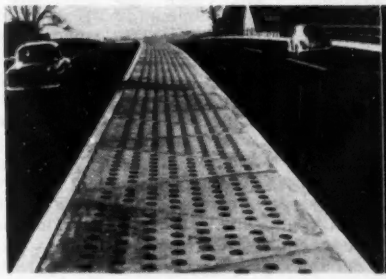

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Some Methods of Dealing with Overhead Highways

Assembled by the British Road Federation

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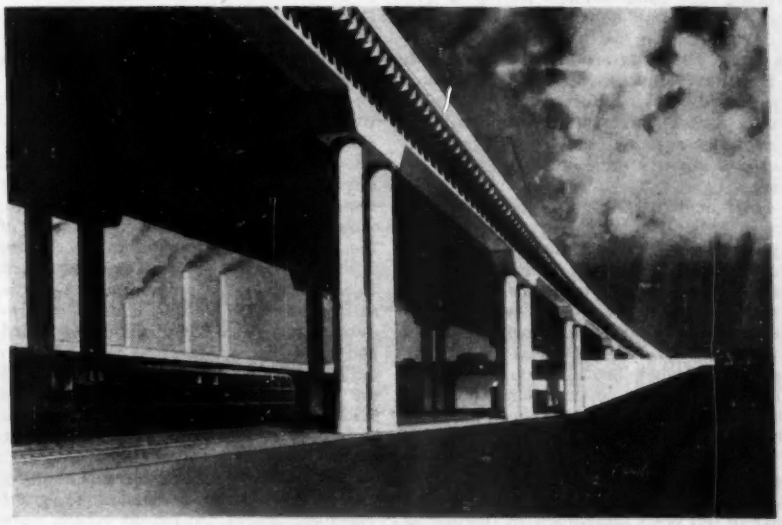


THE BRITISH ROAD FEDERATION has issued photographs of a number of schemes showing how overhead road traffic is being dealt with in various European countries. Fig. 1 shows the Kettig viaduct, Weissenthurm, West Germany, which uses a type of construction that avoids the need to work from ground level when the columns have been set up. Figs. 2 and 3 show surface and under views of the Dusseldorf overhead highway; the median strip contains holes which light the lower road while discouraging traffic from crossing over it. Fig. 4 shows the graceful curve of the motorway approach to Dusseldorf's north bridge over the Rhine. Fig. 5 shows an impression of the Ministry of Transport scheme for the motorway-over-railway viaduct through Oldbury and Smethwick, part of the future Birmingham-Bristol motorway. The viaduct will be 3 miles long.

'The Small House for Sale'

A Housing Centre 'Brains Trust'

'THE SMALL HOUSE FOR SALE' was the theme of a brains trust meeting held at the Housing Centre on March 29 and forming one of the events of National Homes Week. The question-master was Mr. D. E. Woodbine Parish, President NFBTE, and the 'brains' were Mrs. Leonard Wills, ARIBA, who is a member of the Housing Centre committee; Mr. Peter Dunham, FRIBA; and Mr. Robert Whittington, a builder.

The first question, from MR. PURVIS, of the National House-Builders' Registration Council, asked to what extent barriers to progress in the matter of modern design had been put up by building societies and planning authorities and what could be done about it.

MR. DUNHAM replied that the architectural profession thought on the whole that building societies had been the niggers in the woodpile in regard to good design of housing. They tended to look very cagily at anything that was the slightest bit new. But he thought that at last they were beginning to wake up a bit.

Fear of the 'Advanced'

Planning authorities were a little bit afraid of giving their blessing to something which was very advanced—in their opinion. Mr. Dunham thought the only thing that could be done to stop this tendency was for the architectural profession and the building industry to bring pressure and propaganda to bear to make building societies accept new designs. He did not think building societies were being very good business people in lending money for houses which would be out of date in five to ten years' time.

MRS. WILLS agreed generally with Mr. Dunham. She thought it was extraordinarily difficult for members of planning authorities to appreciate architects' working drawings. She thought they should improve their knowledge of drawings.

Although agreeing to a certain extent with Mr. Dunham, MR. WHITTINGTON pointed out that building societies had certain responsibilities. They were dealing with money, not materials. They had to take care that in ten to twenty years' time they would have something which was really an asset. He was all for progress in design, but he thought it must happen gradually, so that there would not be a tremendous difference apparent between the old and the new designs.

What is progress? asked MR. BOWYER, president of the NFRH-B, and asked the panel whether they did not think that in five to ten years' time many of the houses called modern today would not be completely out of date.

MRS. WILLS thought that progress after the first world war was so slow because of the tremendous shortage of materials and was international in character. After the second world war progress was very much more on national lines. There was much more understanding now of the right use of materials. She had been interested to see the type of modern houses put up since 1950. We had had some extremely pleasant houses that were almost going back to the eighteenth century type of design, where pitched roofs blended pleasantly with their surroundings; there was more sense of harmony and more sense of colour.

She also thought there was more appreciation today among architects of the use of space, of how families live, of the modern style of living and there was a very definite trend towards the greater equipping of houses with mechanical equipment. But building societies still tended to be out of date in their views of how a kitchen should be designed and not to realise that today people would want a refrigerator, a washing machine and perhaps a spin dryer in their kitchen.

MR. DUNHAM hoped the architectural profession and building industry would never reach the stage where they would sit back and say, in regard to house planning, 'That is as far as we can go.' He hoped that just as we looked back with admiration on the Georgian house, we would look back in years to come with admiration on the better type of modern house. He thought that on the whole progress had been made in design since the war, especially in making better use of the space available. For example, the planning of the living room was probably the most outstanding feature of modern house design.

The Builder's Viewpoint

Support for the view of Mr. S. Wills and Mr. Dunham on this point was given by MR. WHITTINGTON, who added that the house builder learnt from hard experience. He received very strong criticism these days, particularly from the ladies if the kitchen was not equipped in the manner they required. The general public was becoming far more educated in regard to housing needs. Much more thought was being given to the planning of the home. The problem of the house builder was that, while he was very much aware of what the public wanted in the matter of house design, he had to produce it at a price the client could afford and therefore, whatever he would like to build as far as the space available and the equipment were concerned, he was placed in a difficult position owing to the high cost of producing a housing unit today.

The position would be eased if building societies could be persuaded to grant larger mortgages for houses which were equipped with good heating systems, better plumbing and generally better planned than the average.

MR. ANTHONY POTT, ARIBA, asked if there was more public demand for rented houses built by private enterprise than was catered for at present.

MR. WHITTINGTON said his firm would like to build houses to rent again, but since the war it had been economically impossible for the private builder to build houses to let at a present-day rent. It had been tried, but he did not think the developers in question had found it entirely satisfactory financially. In the Southampton area where he came from there was a large number of men who were officers on ships. They did not want to live in the Southampton area all their lives and preferred to rent their house or flat while they remained in the district. It was necessary to provide housing units for people of that kind, but his firm found it very difficult to do so.

This question related to the type of industry we were going to have in this country, said MRS. WILLS. Were we going to have people moving about far more speedily from job to job than they did now? If they could be certain of finding accommodation in say, Glasgow, identical with that which they occupied in Southampton, they could sell it to the next man who was to take over their job. But they had to take into consideration that the owner would have to keep the house in order.

MR. DUNHAM thought the problem was largely a financial one. During the inflationary period since the war people had been able and ready to put down the money to buy a house, knowing that in four or five years' time, if they wanted to sell, they would make quite a nice profit. He did not think there was great demand today for houses or flats to rent. The demand came more from the financiers who were looking for property, mostly flats, in built-up areas in which to put their money for letting.

Another questioner asked if the panel did not agree that the builder wanted to remain a builder only and did not want to become a landlord too.

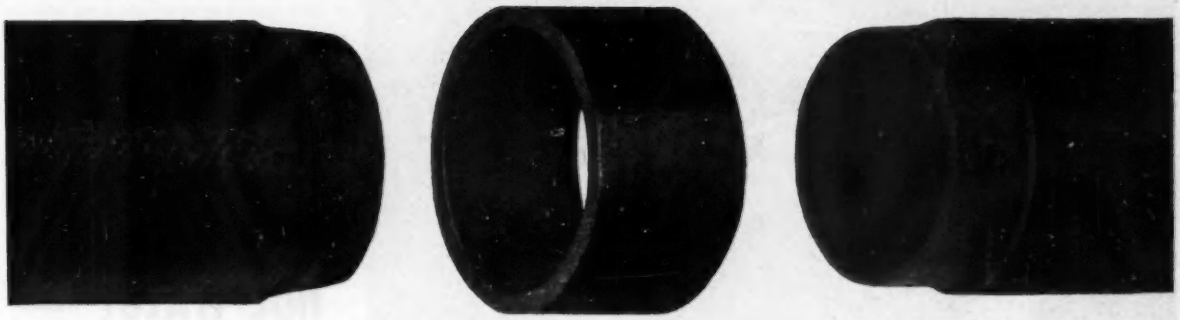
Housing as an Investment

MR. WHITTINGTON thought the builder had been forced into the position of being a builder and not a landlord. If he himself were going to build for letting in the next three or four years he would make a careful study of the type of housing unit that would prove the soundest investment. To build for this purpose would be impossible at the present time, but it might be possible in a few years. The type of housing unit he thought would be most suitable would be blocks of flats, because the cost of maintenance per flat would be less than for the individual house.

MISS J. ADBURGHAM, LRIBA, asked about the fairly recent trend of purchasing, as distinct from renting, flats. Many of these today were bought before they were built, she said.

MR. DUNHAM replied that this was a natural development that had taken place for various social and economic reasons. Many people now did not want to be tied to looking after a garden—they wanted to get into their cars and go out into the country in their spare time. Flat buying had been common in Scotland for years,

FLEXPIPE'S EXTRA 2ft LENGTH



CUTS COSTS!

Longer lengths cut laying time

Flexpipe—the latest development in pitch-fibre piping—comes in 10 ft. lengths instead of 8 ft. This means that any length of piping can be laid as much as 20% faster with Flexpipe than with any other pitch-fibre pipe—an important saving in labour costs.

Less jointing cuts material costs

This extra length also reduces the number of joints needed on any job—a valuable saving in jointing materials.

Flexpipe is available NOW in both 4" and 6" internal diameters—and costs no more than other pitch-fibre pipes.

AND REMEMBER FLEXPIPE HAS THESE OTHER ADVANTAGES

(a) Much easier to transport, stack, and handle—one man can carry three or four Flexpipes at a time without any sense of strain. If he drops them — they're unbreakable! (b) No jointing compound required: Flexpipes are joined together with a collar that can be simply knocked on with a hammer and a block of wood. The joint is then completely sealed. (c) Flexpipe cannot crack under earth movements and is corrosion-proof. (d) It can be sawn to any length as easily as wood.

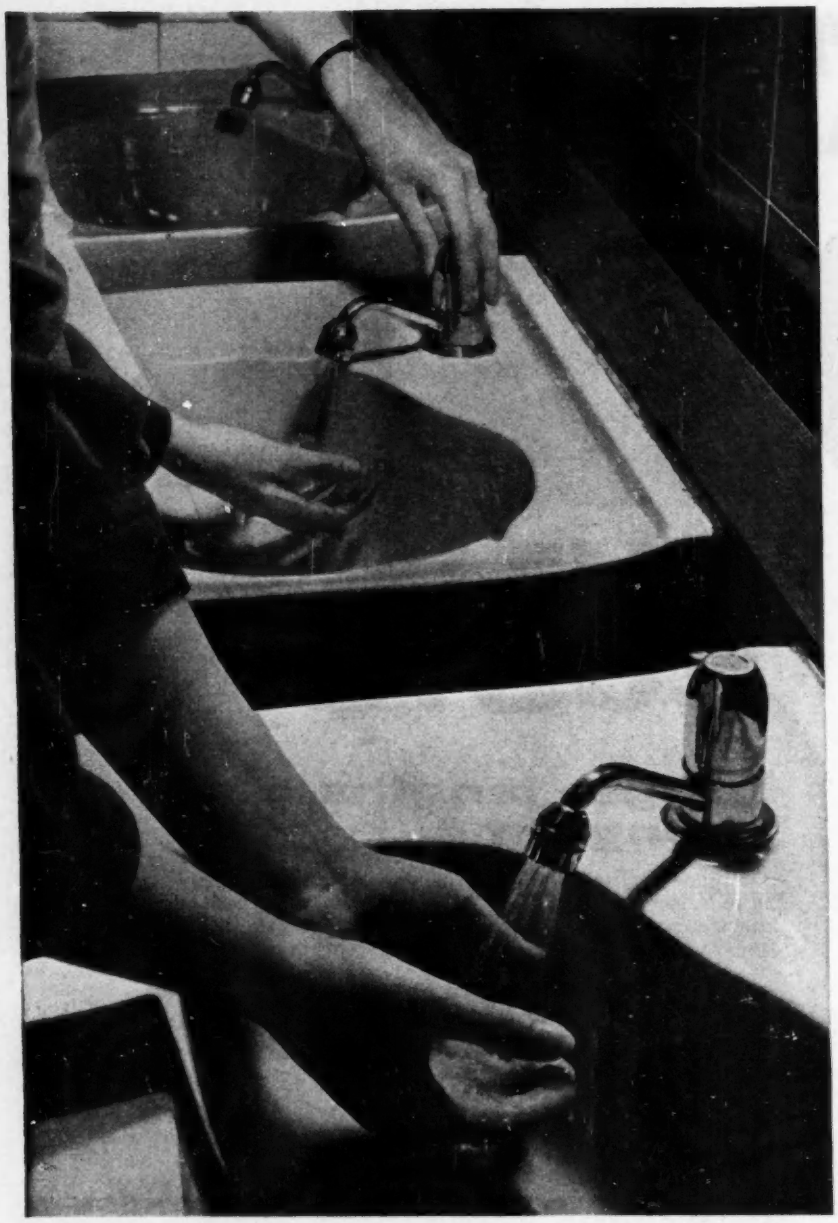
LIKE TO KNOW MORE? *Send for Flexpipe literature or let us put our representative in touch with you. Or both.*

Flexpipe

PITCH-FIBRE PIPES

FLEXPIPE LIMITED, Bowater House, Knightsbridge, London, S.W.1. Tel: KNIghtsbridge 7070. Now a member of the Bowater Organisation

GBC1



How much water — hot water — can you afford to waste?

We waste too much water, and mainly hot water. We fiddle with the taps until the basin is a hot reservoir.

Contrast this with two recent cases. In the first, a branch of an institution was using in an ordinary week five hundred gallons hot and cold. This is now fifty-four gallons a week! The second is a London office block which for years used in a month six thousand gallons of hot and one thousand, six hundred and fifteen of cold. They have reduced this to one thousand, four hundred and fifty hot and eight hundred and fifty cold—a sixty-nine per cent total saving of water, seventy-five per cent of which (repeat: seventy-five per cent) was hot!

Unataps do this. A single mixing-tap, an exhilarating, fine spray, a more hygienic wash—and a saving. You really cannot afford to be without Unataps.

Write for Leaflet No UJ/27

WALKER, CROSWELLER & Co. Ltd., Cheltenham., Phone: Cheltenham 56317 or HOLborn 2986 (London)

but in England there seemed to be a prejudice against it on the part of the legal profession. One reason for flat-purchase was the compulsion, resulting from the shortage of land in towns, on builders to erect blocks of flats.

A member of the audience volunteered the information that the position regarding the sale of flats had largely been altered by a recent High Court case about Schedule A income tax. Before this case was decided the developer had been liable for the Schedule A tax on the whole of the premium that he charged on the flat and therefore stood to lose nearly half of it.

MR. M. BOND asked if the team thought that the builder, who was the man who knew most about the use of materials and labour, was not more fitted to design a practical house than the architect?

MRS. WILLS reminded the audience that Mr. Jellicoe, after three years' battle near Guildford, withdrew from his project of designing houses, saying that the builder knew so much better what the public needed than he did. In many cases where one was trying to design to a very rigid economy limit the builder could tell you more about what the public wanted and how to build, say, 20 houses at a minimum cost to himself, but whether these houses would be as nice to live in as an architect-designed house she very much doubted.

The architect fundamentally could do the job very much better than the builder, said MR. DUNHAM. From his own experience he had often found, where the builder had been building rows of houses, that he (Mr. Dunham) could still see where, say, £25 could be saved on each house on details. It was the builder's experience in organising what sort of plan he was going to employ that should be taken into account when a house was going to be built.

MR. WHITTINGTON said there was no doubt that building was a team job. His federation was keen that every house should be architect-designed. He was delighted to see that far more thought was being given by both architects and builders to the design of houses now than in the early post-war years. He would like to think that, in a short time, for every estate development that took place a panel of architects would be called in to advise on the design.

Answering MR. WALLS (NH-BRC) MR. WHITTINGTON said a limit of £2,500 on the cost of a house did not allow the builder to put in every electrical point that the best modern usage required. MRS. WILLS pointed out that in some rural areas one was limited in the amount of electricity one could use, and MR. DUNHAM thought architects and builders tended to be 'rather mean' about the provision of electrical points.

Conveyance of Wet Sand

Summons Dismissed with 75 gns. Costs for Defendants

MOLD magistrates recently dismissed a summons against a lorry driver alleged to have allowed water to drip from his lorry on to the roadway and awarded 75 gns. costs against the prosecution. Ten other similar summonses were withdrawn by the prosecution.

MR. ANDREW RANKIN, a Liverpool barrister, had asked for 150 gns. costs after criticising the prosecution for bringing charges under the Flintshire County by-laws which he said were 'bad for duplicity.'

The defendant in the first case was alleged to have used on the highway a motor lorry laden with wet sand so that it created, or was likely to create, danger or nuisance to persons or traffic in that, by reason of the wetness of the load or the condition of the lorry, water dropped or leaked on to the highway.

Mr. Rankin said the summons read rather like 'a treble chance football pool.' He objected to the wording of the summons in that it was 'bad for duplicity' by alleging a number of separate offences on the same summons, and he submitted there was no case to answer.

Dealing with the building industry, he said it was a particularly competitive trade, and Merseyside depended on its products for their building programme. Those prosecutions against drivers carrying that kind of load were quite wrong and detrimental to the general welfare of the community. He submitted no nuisance had been proved after quoting legal authority for the definition of 'nuisance,' and the bench accepted his submission and dismissed the summons.

The bench refused to allow the other summonses to be re-phrased, and MR. G. P. GRIFFITHS, prosecuting for the police, thereupon withdrew them

Asking for 150 gns. costs, MR. RANKIN said it behoved the prosecution to put their house in order and not put people to unnecessary expense. Special tests had been carried out to find out the amount of water falling on to the roadway from the loads.

When MR. GRIFFITHS pointed out that the case had only taken one-and-a-half hours, MR. RANKIN retorted that members of the Bar were not paid by the hour, and the case had only taken that time because the prosecution had capitulated.

The bench allowed 75 gns. costs.

During the hearing of the case a policewoman said she saw the lorry approaching traffic lights with water dripping from it. As it stood still, water formed rivulets in the gutter. She agreed that no one was apparently put to any inconvenience, nor did any accident occur.

Timber Roofs and Structural Frameworks

TWO NEW publications have been issued by the Timber Development Association. The first is a booklet, 'Timber Roofs for Factory Buildings and the Thermal Insulation (Industrial Buildings) Act, 1957,' which sets out some of the uses of timber within the requirements of the Act. It also deals with certain restrictions contained in the regulations which may affect the use of timber for factory roofs. A leaflet entitled 'Some Points on the Fire Endurance of Timber Structural Frameworks,' distinguishes between the fire endurance and the combustibility of structural materials and sets out the facts relating specifically to timber. Copies of these publications may be obtained without charge from the Association at 21 College-hill, EC4.

Basic Materials

Prices Continue to Fall

THE FALL in the prices of raw materials continued in March, the provisional index for materials and fuel used in manufacturing industries being 0.8 per cent lower than in the previous month. The price of copper, which had shown an upward movement for some months, fell by 4 per cent and was with brass mainly responsible for the decrease of 0.2 per cent in the index of materials used in the mechanical engineering industries and of 0.3 per cent in the index for electrical machinery materials.

The March wholesale price index issued by the Board of Trade for all building and civil engineering materials at 145.8 showed a provisional decrease of 0.2 per cent from the figure for the previous month. The house-building materials index for March at 145.5 remained static (June 30, 1949=100).

Commodity	Mar., 1959	Feb., 1960	Mar., 1960
Coal	141·1	140·5*	140·3*
Slates	136·1	136·1	136·1
Refractory goods, including bricks	127·5	126·8	126·8
Non-refractory goods, including bricks	110·1	113·4	113·4*
Building bricks, common, other than fletton, ex-works	112·2	117·2	117·2*
Building bricks, fletton common, delivered	105·2	105·2	105·2
Glass (other than containers)	121·1	121·9	121·9*
Cement, delivered	115·3	113·2	113·2
Cast stone and cast concrete products	102·8	102·4	102·4*
Synthetic resins and plastic materials	90·7	89·2	89·3*
Paint for building and decorating	108·7	108·7	108·4
Steel sheets	127·9	126·5	126·5
Aluminium and aluminium alloy products (extruded and drawn)	124·4	127·4	127·4
Galvanised cisterns, tanks and cylinders	112·4	122·1	122·1
Home-grown hardwood ...	96·0	96·2*	96·2*
Wallpaper	119·8	119·8	119·8*
Aluminium virgin ingot, delivered	115·4	119·2	119·2
Copper, ex-ship, wharf or warehouse	99·9	106·2	101·9
Lead, ex-ship, wharf or warehouse	72·1	76·6	79·1
Zinc, ex-ship, wharf or warehouse	96·0	113·5	115·2
Imported hardwood, ex-yard or wharf	102·8	106·5	107·2*
Imported plywood (delivered to consumers)	93·3	95·8	95·8*
Imported softwood (delivered to consumers)	94·5	101·7	101·7*

* Provisional.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0
Other colours according to colour. In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

HOLLOW CLAY PARTITION BLOCKS (Keyed) Minimum lorry loads		£	s.	d.
*2½ in. 140 yds.	per yd. sup.		4	5
BUILDING BLOCKS (Keyed)				
*3 in. (6 cavity) 110 yds.	,,		5	5
*4 in. (6 cavity) 90 yds.	,,		6	10
6 in. (8½ in. × 5½ in.) 1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

CLINKER CONCRETE				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5
CRANHAM TERRA COTTA				
2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9
MOLER PARTITION BLOCKS				
2 in. 150 yds.	,,		11	3
2½ in. 120 yds.	,,		14	0
3 in. 100 yds.	,,		15	0
4 in. 90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS				
2½ in. 144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ⅝ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0

All over the South builders are changing to Entrainit

At High Wycombe—General Housing (Provincial) Ltd. are building an estate of 350 houses. Over 200 of them have already been completed. After finishing the first six pairs, General Housing changed to Entrainit—because they found it more convenient to use.

At Wokingham—Francis Bros. (Builders) Ltd., of Reading, are finishing a Borough Council Estate of 70 houses. As on all their sites, they are using Entrainit—and are getting a fatty, workable mortar with a lean 8:1 mix.

Hundreds of builders prove Entrainit saves more money!

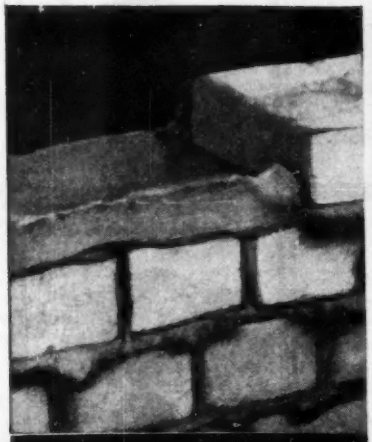
ENTRAINIT goes straight into the mixer—a measuring scoop comes with each box. There's no stock solution to mix, no wastage.

ENTRAINIT disperses almost instantly, giving a completely consistent and uniform mix. Mortar made with ENTRAINIT is fattier, more workable. It produces well-filled joints and gives a smooth, durable finish.

ENTRAINIT comes in handy 28 lb. boxes (and a 2 lb. trial size), which are easy to store and can be carried to any part of the site. No drums to pay a deposit on or return!

ENTRAINIT is 50% cheaper than liquid admixtures —1 ounce is required for 1 cwt. of cement and the maximum cost is only 3d. per ounce.

The powder mortar-plasticiser that outdates lime and liquid additives!



See how Entrainit gives fattier, more workable mix . . .

Change to

Entrainit

and save money on every mix!

Obtainable from Builders' Merchants

For further details about ENTRAINIT, fill in this coupon and post it to:

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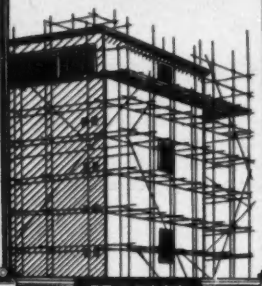
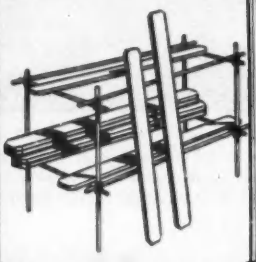


SCAFFOLD BOARDS



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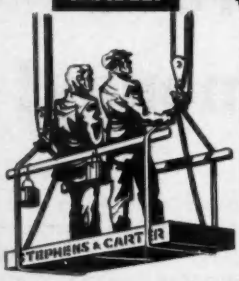

BOSUN'S CHAIRS

LADDERS
Extensive variety including Pole, Extension, Push-up or Rope-operated, etc.
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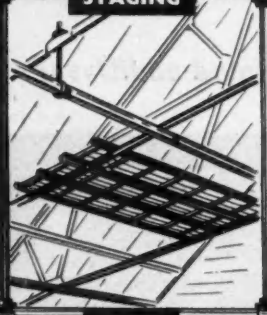
All types—Independent, Putlog, Cantilever, Birdcage or Slung.
CRADLES
Travelling and fixed types for straight or curved frontages.
STAGING
All lengths from 10 ft. to 24 ft., 18 in. wide.
STEPS
4 tread to 20 tread.
TRESTLES
6 ft. to 18 ft.
SCAFFOLD BOARDS
All lengths.
BOSUN'S CHAIRS
Safe, strong metal construction.
WHEELBARROWS
Capacity 3 to 7 cu. ft.
"BENFORD" CONCRETE MIXERS
Small half-bag size to 10/7. Alternative power units.

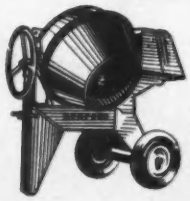
STAGING



WHEELBARROWS

STEPS

'BENFORD' CONCRETE MIXERS



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AGENTS In Cardiff—Newcastle-on-Tyne—Bristol—Belfast

AD/SC38

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	−10%	+5%	+12½%
BSS Best Quality...	+10% −10%	+10% +5%	+10% +12½%
Tested Quality ...	+37½% −10%	+37½% +5%	+37½% +12½%
BSS Tested Quality	+47½% −10%	+47½% +5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 25 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.– Breakage in transit, purchasers' responsibility.

TIMBER

		Ex Wharf	per	
Softwood				
Joinery quality			standard	£115 to £140
Carcassing quality		do.	,,	£94 — £98
1 in. Tongued and Grooved Flooring		do.	,,	£110 0 0

Hardwood				£	s.	d.
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots 1–11)

Delivered London area.		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
5/16 in. do. do.	,,	2	4	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOIST, ETC.

Basis Joists—		£	s.	d.
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4½ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
⅛ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
⅞ in. and ¾ in. diam.	,,		15	0

MILD STEEL TUBE

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings		Malleable Fittings
Light	−39½%	−41%	Light	−26½%	Malleable List
Medium	−35½%	−37%	Heavy	−22½%	−23% +40%
Heavy	−27½%	−29½%			
Black—					
Light	−50%	−51½%	Light	−32½%	Malleable List
Medium	−46%	−47½%	Heavy	−28½%	−23%
Heavy	−38½%	−40%			

C.I. HALF-ROUND GUTTER

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/1	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/1
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipe

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	per yd.	4/7	4/10½	5/11	7/10
Shoes ...	each	3/–	3/3	3/10	5/2
Single Branches ...	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	,,	3/7	4/8	5/2	7/3
do. 6 in do....	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends ...	each	3/6	4/–	4/9	5/5
Stop ends ...	,,	1/1	1/2	1/3	1/5
Angles ...	,,	3/7	4/1	5/–	5/10
Nozzles ...	,,	3/6	4/–	4/9	5/–
Union Clips ...	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends ...	each	2/6	3/–	3/3	3/7	5/2
Stop ends ...	,,	1/–	1/1	1/2	1/3	1/5
Angles ...	,,	2/10	3/3	3/7	3/10	5/2
Nozzles ...	,,	2/6	3/–	3/3	3/7	5/2
Union Clips ...	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality ...	52 17 6
Mild Steel Bars ...	47 8 6
Mild Steel Hoops ...	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge ...	62 7 6
24 gauge ...	64 17 6
26 gauge ...	67 17 6
Galvanised Corrguated Sheets, 6-ft. to 9-ft. —	
20 gauge ...	70 18 0
24 gauge ...	74 8 0
26 gauge ...	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge ...	72 8 0
24 gauge ...	75 18 0
26 gauge ...	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide) ...	,,	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide) ...	,,	3 1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG ...	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG ...	,,	1 19 3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG ...	,,	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	,,	2 7½
Extruded section BS 1476 HE10WP simple angle	,,	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round ...	,,	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,	4 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,	6 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s.	d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb.	3 7
Tinmen's	,, ,,	404/–	,, ,, ,,	4 5
Blow pipe ...	,, ,,	407/–	,, ,, ,,	4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 31d. per lb. plus gauge and manufacturing extras as follow. . Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	46½	Approx. per ft.	12½
¼ in. × 19 ,,	13¾	,, ,,	44¾	,, ,,	17½
1 in. × 18 ,,	12¼	,, ,,	43¼	,, ,,	26¼
1¼ in. × 18 ,,	11⅞	,, ,,	42⅞	,, ,,	32¼
1½ in. × 18 ,,	11⅞	,, ,,	42⅞	,, ,,	38¼
2 in. × 17 ,,	13¼	,, ,,	44¼	,, ,,	62

Small Quantity extras :—
10 cwts. to 5 cwts. ... ... plus ½d. per lb.
5 cwts. to 2 cwts. ... ... ,, 1d. ,,
2 cwts. to 1 cwt. ... ... ,, 2d. ,,

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	302 5 0

Zinc

		£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7 15 3
,, ,, 12 gauge (23 SWG), ,, ,, ,,	,,	7 14 9
,, ,, 14 gauge (21 SWG), ,, ,, ,,	,,	7 13 6

Brass Tubes

		£ s. d.
Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2 1½

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	115 15 0
,, Water Pipe, in coils	,,	118 0 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	119 10 0
,, ,, ,, over 4 in. dia.	,,	121 10 0
,, Gas or Untinned Compo pipe...	,,	119 10 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:		
3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	,,	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £66 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	,,	8 14 0
Sirapite Coarse BSS 1191 Class C do.	,,	8 15 9
do. Fine do. do. do.	,,	9 3 3
do. Browning BSS 1191 Class B do.	,,	8 15 9
do. Board Finish do. do.	,,	8 15 9
Blue Lias Lime, in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey), in 6-ton loads	,,	5 10 0
do. (White) do.	,,	6 0 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	,,	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	11 14 0
Granite Chips, in 6-ton loads	,,	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	,,	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 9
1,200 yds.	,,	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,	2 6½
1,200 yds.	,,	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	3 0

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RIL 376

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper ...	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint ...	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs ...	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg ...	,,	2	12	6
Size XD quality 28 lb. ...	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra ...	per gal.		19	2
Boiled Linseed Oil (5 gal.) do. ...	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra ...	,,		5	4⅝
do. do. (40 gal.) do. ...	,,		4	8¾
Solignum, Brown (5 gal. cans) Exterior ...	,,		8	8
Creosote (40 gal. barrels) ...	,,		2	3
Paste Powder (1 lb. packets) ...	per lb.		2	4
White Lining Paper ...	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside ...	per gal.	2	0	0
Oal Pale Copal do. do. ...	,,	2	0	0
Hard Drying Oak for Inside ...	,,	2	5	0
Crystal Paper Varnish do. ...	,,	2	8	0
Eggshell Flat Varnish do. ...	,,	2	2	0
Finest Carriage Varnish ...	,,	2	7	0
Front Door Varnish ...	,,	2	4	0
Japan Gold Size ...	,,	1	12	0
Black Japan ...	,,	1	16	0
Brunswick Black ...	,,	1	12	0
Berlin Black ...	,,	1	10	0
Terebene ...	,,	1	12	0
Knotting (1 gal. bottles free) ...	,,	1	15	0
French and Brush Polish (do.) ...	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes ...	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate ...	,,	1	2½
3/16 in. Rolled and Rough Cast ...	,,	1	5
½ in. do. do. ...	,,	1	5¾
⅛ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1 ...	per ft. sup.	1	2½
do. Group 2 ...	,,	1	8½
do. Standard Tints ...	,,	2	1½
do. Special Tints ...	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3 ...	,,	1	7½
¼ in. Wired Cast ...	,,	1	9½
¼ in. Georgian Wired Cast ...	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in. ...	,,	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ...	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ...	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded ...	,,	7	6
P.B.3 Broad reeded ...	,,	9	0
P.B.32 Cross reeded ...	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup. ...	per ft. sup.	4	7
,, ,, ,, 5 ft. sup. ...	,,	5	7
,, ,, ,, 45 ft. sup. ...	,,	6	9
,, ,, ,, 100 ft. sup. ...	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do. ...	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q. ...	3,000		6¾
24 oz. ,, ,, ...	2,000		8¾
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
¼ in. Rolled Plate ...	1,000		10¾
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1 ...	1,000		10¾
do. Group 2 ...	1,000	1	2
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3 ...	1,000	1	2
3/16 in. Rolled Plate or Rough Cast ...	2,000	1	1
½ in. do. do. ...	2,000	1	1¾
¼ in. Wired Cast, Hexagonal ...	2,000	1	4½
¼ in. Georgian Wired Cast ...	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen ...	4/11½	4/11
Labourers ...	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Caerleon Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts' [illegible])	A
Ebbw Vale & Dis[illegible]	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Tenby	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

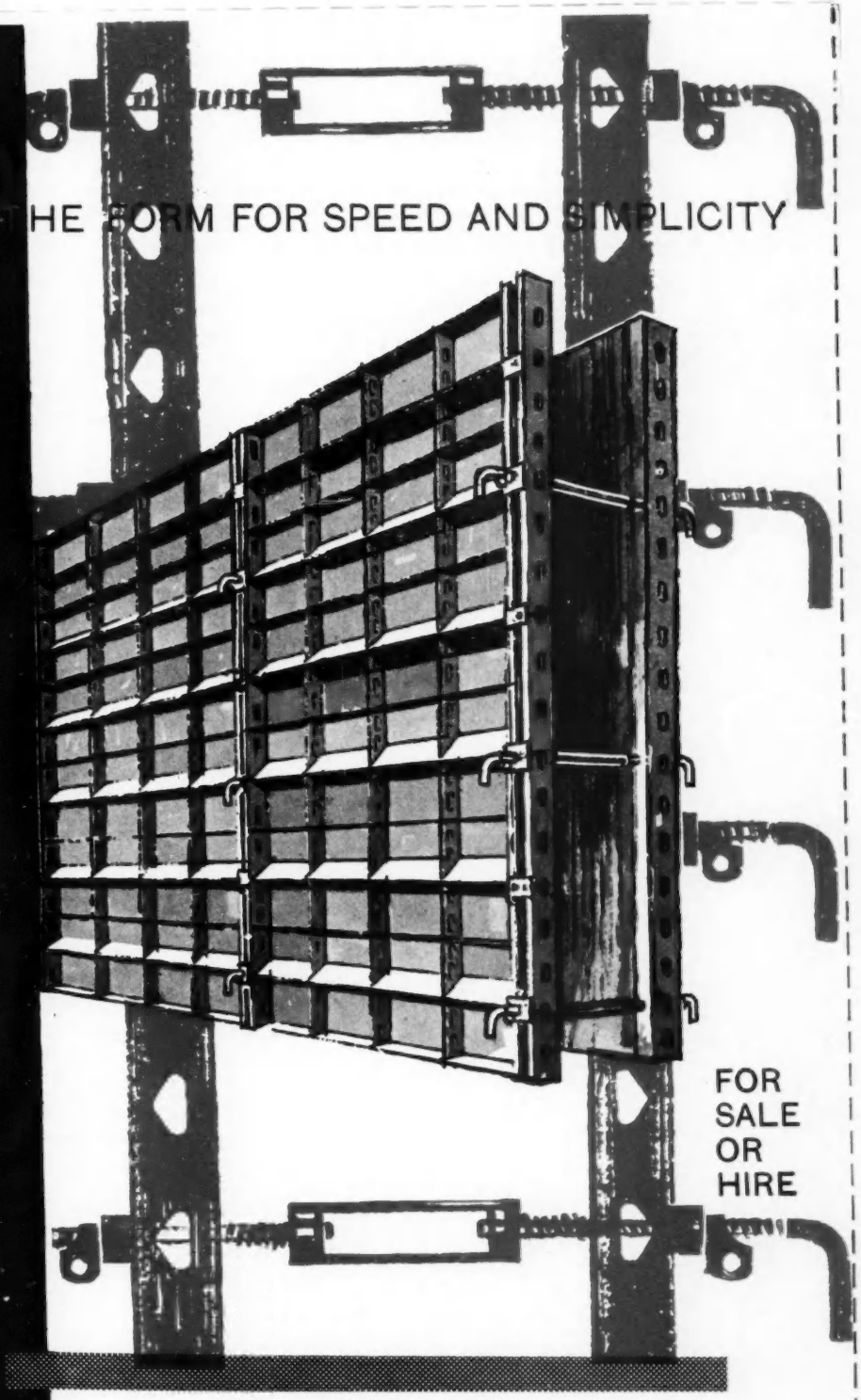
NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 851

MARK 2 FORMWORK

THE FORM FOR SPEED AND SIMPLICITY



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For further information write to
Kwikform Limited, Waterloo Road, Birmingham 25. *Acocks Green 1152*
London Office: East Road, Upper Wickam Lane, Welling, Kent. *Woolwich 9177/8/9*

the advantages of THERMALITE

Lightweight loadbearing insulating building blocks

in curtain wall construction

Architect: Reginald H. Gallannaugh L.R.I.B.A.
Consulting Engineers: Bylander, Waddell & Partners
Contractors: Tersons Limited.

PETROFINA HOUSE . . . a case in point

In Petrofina House an inner leaf of 4″ Thermalite blocks has been used to sill height. A cavity of approximately 2″ is provided between it and the curtain wall glazing.

Thermalite, thus employed, more than adequately fulfills the L.C.C. construction bye-laws. It provides a fire resistance superior to that of the 8½ inch brickwork which would be needed to comply otherwise, thereby increasing valuable floor space.

Numerous other advantages are attendant upon its use. Reduced dead loads have enabled all-round structural savings in beam column and foundations; direct fixing of radiators and other internal fittings without plugging has been made possible. Added to these items, and the considerable saving which can be inferred are the improved comfort conditions and reduced fuel costs which automatically follow wherever Thermalite is used.

For further information and samples apply to:

THERMALITE YTONG LIMITED

Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.
Telephone: Coleshill 2081.

A LAING COMPANY

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 131 of this issue. The form can be used for more than one inquiry.

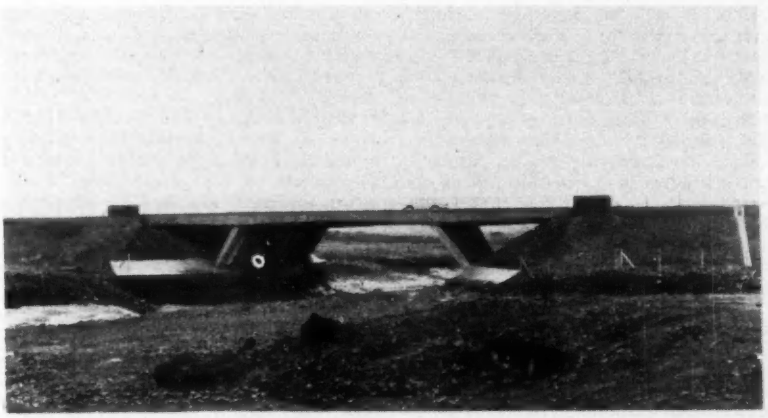
1. Cables

NEW CABLE CLEATS, precision-moulded in one piece, provide a means whereby most types of circular-section cables, up to 2 in. in diameter, can be secured to a variety of surfaces. The cleats are made of black 'Telcothene,' a material which is completely non-corrodible and non-corrosive. They are flexible, easily opened out for slipping on to the cable and are suitable for mounting in cable trays, trunking or racks.
The Telegraph Construction & Maintenance Co., Ltd., Telcon Works, Greenwich, SE10.

2. Lighting

To give easy and economical access to ceiling voids, particularly with expanded metal ceilings, a demountable recessed LIGHT FITTING has been developed. The removal of two surface screws will free the diffuser and at the same time unclamp the fitting. To remove the fitting itself, a simple lift and tilt action will disengage it from its bearers and, with the flex connector disconnected, the whole unit can be removed. The operation is said to take no longer than four minutes. It has been calculated that, no matter what size the light fitting is, on 80 sq. ft. of ceiling per fitting, access can be gained to 85 per cent of the ceiling void.
Campbell Denis, Ltd., 48a Elizabeth-st., London, SW1.

3. Mastics



The Red Jacket Pill Bridge on the Neath By-pass was designed so that it could be erected over a tidal creek in the mud flats of a river estuary without the use of temporary supports

Novel use has been made of an EPOXIDE RESIN in the construction of a bridge on the recently-completed second section of the Neath by-pass. The bridge, a three-span continuous reinforced concrete structure, rests on Vee-supports which hinge on two reinforced concrete foundation beams supported on pre-stressed concrete piles. It was originally intended that the lower ends of the Vee-support units should be fitted, when cast, with convex mild steel bearing plates which, on erection, would fit into concave steel plates cast in the concrete of the pile capping beams. In practice, however, this proved difficult, for the necessary degree of accuracy in setting the bearing plates could not be obtained to ensure an acceptable fit of the plates on erection. The solution found was to create an artificial gap between the plates, by inserting hard rubber strips of ¾ in. thickness, and filling with a composition based on a liquid epoxide resin. This material has a high compressive strength and low shrinkage properties but it also develops a strong bond with steel and concrete and, to provide for the slight rotation of the support members under load, it was necessary to isolate the upper bearing plates from the resin by sheathing them with lead sheet.

Preliminary trials had shown that the hot resin composition would completely fill the gap when poured from one side of the bearing and no difficulties were experienced with the use of the material on the site.
Shell Chemical Co., Ltd., 170 Piccadilly, W1.

4. Miscellaneous

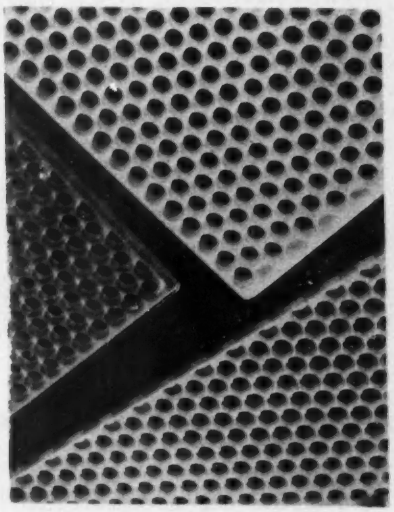
A new range of HOSE FITTINGS has been introduced in order to simplify connections to such equipment as pneumatic tools and compressors. What, in effect, has been done is to transfer the fitting from the hose to the equipment. The hose is pushed into the fitting, which incorporates a stainless-steel spring that grips the circumference of the hose, a locking nut is tightened and a leakproof joint is obtained. Dismantling is said to be just as easy and the fittings can be used many times. They are made in plastic, nylon or metal for many sizes and wall thicknesses of hose.
Hozelock, Ltd., Haddenham, Bucks.

5. Paints

A new FIRE RETARDANT PAINT may be applied directly to wood fibreboards, timber and primed metals. It dries to a smooth, matt finish which, when exposed to fire or heat swells rapidly into a thick, stable, foam-like layer with a high degree of thermal insulation. This not only provides a barrier to the spread of flame on combustible surfaces but also reduces the likelihood of the rapid distortion of metalwork due to heat. Application can be by brush, roller or spray and the finish is normally a decorative white although a limited range of pastel shades are available.
Hadfields (Merton), Ltd., Mitcham, Surrey.

6. Ceiling Panels

A new type of LOUVRED PLASTIC CEILING PANEL is being made from PVC sheet. It is non-inflammable and not unpleasing in appearance, for the ½ in. circular louvre cells make an interesting surface texture. Each panel, 2 ft. sq., is made from a pair of vacuum formed sheets of PVC sealed to a central membrane. The surface of the two outer sheets is formed in an all-over pattern of truncated cones. On the sheets being put together the bases of these cones meet, when they are sealed and pierced to form louvre cells. The panel, which is electronically sealed round the edges, has both structural strength and good light diffusing qualities.
Harris & Sheldon Electrical Ltd., 46 Great Marlborough-st., W1.



The three finishes of 'Circlgrid' PVC ceiling tile gives varying degrees of diffusion

News in Brief

The 1960 Reynolds Memorial Award

THE AMERICAN INSTITUTE OF ARCHITECTS has announced that the $25,000 R. S. Reynolds Memorial Award has been made to the Swiss architect, Jean Tschumi, for his design of the Y-shaped, seven-storey Nestlé's International Headquarters Buildings at Vevey, on the shore of Lake Geneva. The award is made annually by Reynolds Metals Company, USA (who are associated in this country with The British Aluminium Company Ltd.), to the architect who has designed the foremost contemporary structure in the world in which the creative use of aluminium could significantly influence the architecture of our times.

Housing Shortage at Hull

COMMENTING on Hull's urgent need for council houses, Mr. Andrew Rankine, OBE, ARIBA, the city architect, said on April 11 that builders were trying hard, but there were not sufficient operatives engaged in house-building. The shortage of common bricks was a further restricting factor.

Builders' Visit Portugal

PORTUGAL has been chosen by the Eastern Federation of Building Trades Employers for the seventh official overseas visit by members and their wives. The party, led by the president, Mr. D. M. Chaston, FIOB, and the director, Mr. R. W. Porter, MBE, will consist of 45 representatives from 17 local associations. They will leave for Lisbon by boat train from Tilbury on April 29 and return on May 12.

Brixton Old Boys

THE ANNUAL general meeting and supper of the Brixton School of Building Old Boys' Association took place on April 6 at Gows Restaurant, St. Martin's-lane. The principal, Mr. D. A. G. Reid, spoke on the activities of the school and on the possibilities of future expansion. He appealed to all ex-members who had not joined the Association to do so in order that its influence could be felt in every section of the building industry. Applicants should write to the secretary, Mr. L. Wilder at the school.

Steelworks Expansion Scheme

UNDER a new development scheme costing a total of £32½m., Appleby-Frodingham Steel Co. plans to increase its productive capacity for iron and steel and to instal a new rod/bar mill at its Scunthorpe works, and Samuel Fox and Co. Ltd., of Stocksbridge, is to add 100,000 tons per annum to its steelmaking capacity. Both works are branches of the United Steel Companies Ltd. These major projects, which are scheduled for completion by the autumn of 1964, represent the largest development scheme ever to be undertaken by the company. Iron and Steel Board approval has been given.

Trade Literature

MANUFACTURERS and development associations are invited to send technical data and literature to the Chief Technical Officer, National House-Builders' Registration Council, 58 Portland-place, London, W1, where it will be made available in the reference library. Catalogues of traditional materials, fittings and services will also be appreciated.

National Safety Contest

ASSOCIATED PORTLAND CEMENT MANUFACTURERS, Cape Asbestos, De la Rue, Holland & Hannen and Cubitts, Metal Industries, Pressed Steel, The Pyrene Company, Transport Development Group, George Wimpey and Co., John Summers & Sons, Constructors John Brown Ltd., Nu-Swift Ltd., and C.A.S. Industrial Developments Ltd. are among the 35 leading industrial companies who are acting as co-sponsors in the National Safety Contest. This is an attempt to reduce the serious accident rate in industry, on the roads and in the home.

The contest is being actively supported by Members of Parliament and runs from April 25 to May 23. More than £1,000 is being offered for safety ideas and there is a special section for children. Entry forms may be obtained from National Safety Contest, 36 Whitefriars-street, London, EC4.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA.—The Chevron Hotel Group and the International Hilton Hotel Corporation plan to build 6 hotels in capital cities at a total cost of £A32m.

AUSTRALIA (QUEENSLAND).—A tobacco leaf re-drying plant is to be built at Sunnybank, a suburb of Brisbane, by W. D. and H. O. Wills (Aust.) Ltd. Tenders will be called at the end of the month and building operations are expected to start soon afterwards. The cost of the buildings and associated services is estimated at £A¼m.; a further £A100,000 will be spent on machinery and equipment. . . . Construction will start shortly on a modern £110,000 motel at Kangaroo Point, a short distance from the centre of Brisbane. A number of motels for centres north of the city are also planned. . . . A £30m. railway, the Collinsville-Townsville-Mt. Isa line is to be constructed in Queensland. Keen tendering is expected for the considerable earth-moving, bridge-widening and building involved. The project is being supervised by American consultants at a reputed fee of $570,000.

AUSTRALIA (SOUTH).—Charles Birk & Co. of Adelaide, is to build the largest fully air-conditioned departmental store in Australia at a cost of £A2½m. It will have 10 floors for shoppers and be one of the tallest buildings in Adelaide.

AUSTRALIA (WESTERN).—It is expected that a start will be made on the construction of a new general hospital—the nucleus of the university's medical school—at Hollywood in 1962. This was recently announced by Mr. Hutchinson, the Health Minister.

BRITISH COLUMBIA.—A proposal for the multi-million dollar development of a completely planned city centre for the Municipality of Surrey has been announced by General Sir Ouvry L. Roberts, president of Grosvenor-Laing (BC) Ltd. The proposed development is subject to the approval of the Surrey Planning Commission. Planning is already under way for the project which will be in the form of a garden city centre and will cover well over 100 acres of land. The development includes a civic centre, residential accommodation, offices and a shopping centre.

BRITISH GUIANA.—The Director of Civil Aviation stated recently that priority would be given in the 1960 development programme to the construction of airstrips in the interior to encourage tourism. One will be built at Bartica, on the Essequibo River; the other will be sited near the Kaiteur Fall, on the Potaro River.

BULGARIA.—Hissar resort near Plovdiv plans to build 38 new rest-homes and 6 hotels to accommodate 120,000 people.

DENMARK.—Imperial Chemical Industries and A/S Dampskibsselskabet Svendbork and Dampskibsselskabet of 1912 A/S, owners of the Maersk refinery, Copenhagen, are forming a new company in Denmark for the manufacture of polyolefines; the company will be known as Danbritkem A/S Copenhagen. A polythene plant with a capacity of 15,000 tons a year will be built alongside the Maersk refinery and will play a big part in the development of plastics raw material in the area. . . . It has been announced that the Nordafar Company, in which there is Norwegian, Danish and Faroese participation, will expand its fish filleting factory and construct a fish meal factory at Faeringehaven in West Greenland.

ECUADOR. — The Government has approved an expenditure on highways, bridges and port works of 188m. sucres from the 1960 capital budget of the Ministry of Public Works. This includes 36m. sucres for the Inter-American highway from Loja to Macará and 33m. for the highway connecting Quito, Aloag and Santo Domingo.

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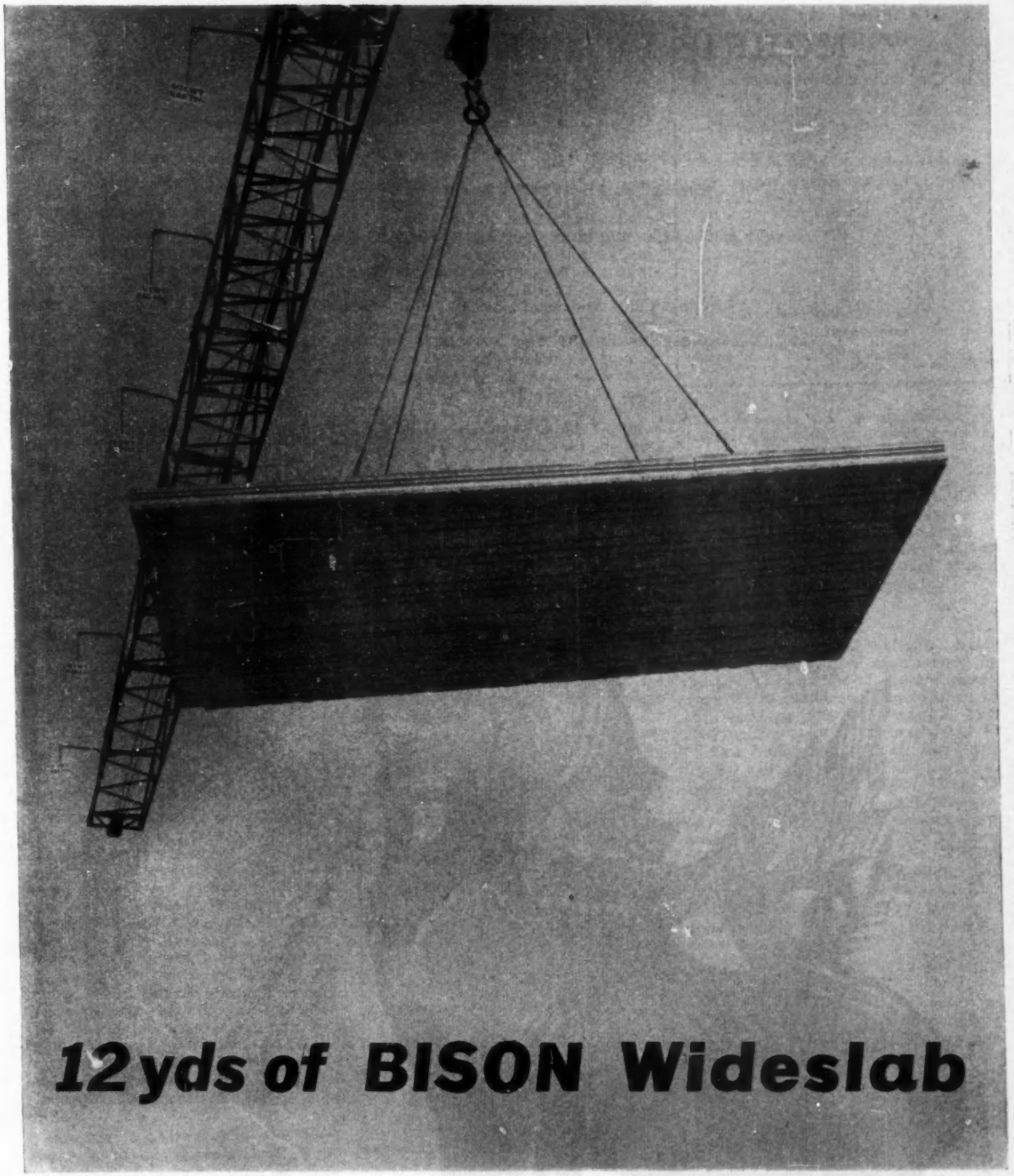

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IROKO, AFRORMOSIA

INDIA.—The Home Minister has stated that a number of schemes for the development of the areas near the Tibetan border will be undertaken shortly. The construction or extension of several roads in these areas have already been approved. Development schemes will include hospitals and schools. . . . A synthetic rubber plant will be set up at Bareilly at an estimated cost of £11¼m. The Indian Commerce Minister stated on April 4 that negotiations with foreign firms were in progress.

IRAQ.—The Prime Minister has released details of Iraq's new temporary 4-year plan. Over £50m. is to be spent on public buildings, £39m. on industrial projects, over £100m. on communications, £77m. on housing and summer resorts, and £25m. on hospitals. . . . The Economic Planning Board has approved the award of a contract to the British firm of consulting engineers, Sir Murdoch Macdonald and Partners, for the survey and design work on the Al Dalmaj irrigation and drainage project.

JAMAICA.—The Sheraton Hotel Corporation of the USA is to erect a 200-room hotel in the outskirts of Kingston.

KENYA.—Work is to start immediately on a new £75,000 Ismaili school in Nairobi which will be open to all races. A 12-acre site has been acquired and it is hoped that the building will be completed before April, 1961.

NEW ZEALAND.—The Chevron Hotel Group and the International Hilton Hotel Corporation plan to build a new hotel in Auckland.

NYASALAND.—Tenders are to be called in September for the construction of a 50-mile gravel road from Chileka airport to the Nyasaland border at Zobwe. The contract is estimated to be worth £800,000.

PERSIAN GULF (KUWAIT). — Projected major government calls for tender scheduled for this year are as follows: neighbourhood centre 'F,' Coutts and Awqaf department building, finance department building, Social Affairs Department building, outpatients department at Emirie Hospital, international airport, Public Health Department building, Education Department building, port storage sheds, central prison, Port and Customs Department HQ, port buildings, and neighbour centres at Hawalli, Salmieh, Farwanieh, Abrakitan, Al-Da'iya, Al-Qadisiya, Al-Fayha. In the case of some at least of the first nine, special air-conditioning tenders are likely to be invited.

RHODESIA & NYASALAND.—The Ford Motor Co. have announced plans for the building of an assembly plant in Salisbury at a cost of about £2m. The plant is to be in operation by the end of next year. . . . Umtali Board and Paper Mills Ltd., a subsidiary of the British Plaster Board Company Ltd., have announced plans to erect a plant to manufacture newsprint. . . . Colcom Products Central Co-operative Ltd. Kopje, Salisbury, are to erect an abattoir and factory in Salisbury for the production of pig products at a cost of about £320 000. Danish consultants are to be engaged.

SCOTTISH BUILDER

Development Plan Rejected

KIRKCALDY TOWN COUNCIL have endorsed, without comment, a decision of the planning committee not to accept the offer of Murrayfield Real Estate Co., Ltd., Edinburgh, to redevelop the central area of the burgh in co-operation with the Council, using compulsory powers of acquisition where necessary. Strong opposition to the plan came from traders and property owners in the area, who warned the Council that they would take all steps within their power to resist the granting by the State of monopolistic measures to the council or their agents to proceed with such a scheme.

At a meeting which Kirkcaldy Chamber of Commerce had with the planning committee, vigorous objections were made in regard to the council handing over the development rights in the central area to interests outside the burgh.

£4m. Industry for Dunbar

A £4 MILLION open-cast limestone mining industry covering 325 acres near Dunbar and employing 314 workers—most of them local men—may be set up soon by Associated Portland Cement Manufacturers Ltd. A spokesman for the firm said recently that they had applied for planning permission to East Lothian County Council.

The whole project is still in its preliminary stages and is dependent on planning permission for the 325 acre site.

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SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are :

Year	*Percentage of Craftsman's rate*	*For week of 44 hours* s.	d.
1st	25	54	6½
2nd	33⅓	72	9
3rd	50	109	1
4th	66⅔	145	6
5th	75	163	7½

For female labour, the rates are :

	s.	d.
Operatives on craft operations (at end of probationary period)	4	4
Operatives on labouring operations (at end of probationary period) ...	3	10

Extension of Burgh Boundaries

THE TOWN COUNCIL of Kirkintilloch are seeking authority to extend its burgh boundaries. The extension is claimed to be necessary in view of development plans which include the rehousing of part of Glasgow's overspill population.

Residential Development

BOSWELL, MITCHELL & JOHNSTON, architects of Glasgow, have been invited by Glasgow Corporation to prepare sketch plans for the residential development of the Woodside area of Glasgow. This area extends from St. George's-road to Phoenix Park and the Forth and Clyde Canal, and from Oakbank south to Garnethill. There are 64,000 houses in the 105 acres. Of these, 4,900 will be demolished and the sites cleared. The area is sixth in priority of the 29 areas of Glasgow for redevelopment. Of the property in the area, 3,400 houses will be closed as unfit or unsafe. This move follows the Glasgow policy of planned redevelopment of the internal areas of the city.

Barracks Site for Housing

MARYHILL BARRACKS, which cover an area of 54 acres, are to be acquired by Glasgow Corporation for housing purposes. The district valuer has assessed the price to be paid by the corporation to the War Department at £20,000, and it is estimated that a further £30,000 will have to be expended in demolishing the existing buildings.

New Chipboard Factory Planned

APPROVAL IN PRINCIPLE has been given by the Planning Committee of Dumfriesshire County Council for the erection of a new chipboard factory at Overtown Farm, Annan, for the Airscrew Co. and Jicwood Ltd. The company had originally intended to build the factory, costing £2,500,000, at Raggetshaws, Annan, but there were objections from the United Kingdom Atomic Energy Authority.

New Buildings (Scotland)

CUPAR.—Dean of Guild Court have approved plans for a high sch. to be erected by Fife EC. The sch. is to have electrical under-floor heating throughout. The architect is Mr. R. S. Lawrie, and est. cost is £329,000.

DUNFERMLINE.—Multi-storey flats are to be built at Broomhead Park.

EDINBURGH.—Hart Bros. of Matmerry, have been awarded the contract for 230 houses and 30 lock-up garages at Clermiston South housing estate, Edinburgh. Their tender of £357,478 has been approved by the Corporation. The development involves 204 three apartment houses and 26 two apartment houses.

EDINBURGH.—A Glasgow firm, Atholl Houses Ltd., has been given the contract for 63 houses and eight garages to be built at East Claremont-st. by Edinburgh Corporation. The Housing Com. agreed to accept the firm's tender of £158,049.

INVERKEITHING BURGH.—Erection of town hall, entrance block, office block, car park and grounds. Various trades. Applications to TC.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

APRIL 30

(AR) EASTBOURNE CBC.—24 houses at Langney Village estate. Boro' S. Dep. £2 2s. Tenders by May 24.

MAY 2

(AR) EASTBOURNE CBC.—Erection of factory at Brampton-rd. trading estate. Benz & Williams, architects, 53 Gildredge-rd., Eastbourne. Dep. £2 2s. Tenders by May 30.

MAY 3

(R) TOTTENHAM BC.—18 flats in four-storey blocks at Park-la. Boro' E. Dep. £2 2s.

MAY 4

(AR) DURHAM CC.—Erection of police house with office at Redwood, Esh Winning, and heating installation at Ryton child welfare centre and dental clinic. County A.

(AR) SALFORD EC.—Fixed price tenders for development of playing fields at St. Lawrence RC sec. mod. sch., Weaste-la. W. & J. B. Ellis, F/ARIBA, Barclays Bank-bldgs., Hardshaw-st., St. Helens. Dep. £2 2s.

MAY 6

(AR) OXFORD CITY C.—(1) Block of eight flats at Blackbird Leys estate; (2) four pairs of houses at Blackbird Leys estate; (3) pair of police houses at First Turn, Wolvercote; (4) pair of police houses at Blackbird Leys estate; (5) two pairs of police houses with garage and police box at Horspath-rd. City A & Planning Officer.

MAY 7

CO. FERMANAGH.—Erection of new prim. sch. at Corradraghy. Bill of quantities, etc., from John A. Tynan, 33 Malone-rd., Belfast. Dep. £5.

(AR) PLYMOUTH CITY C.—Erection of Post Office and savings bank at Granby-way, Devonport. City A.

MAY 9

(AR) EASTBOURNE CBC.—New laboratory block at Eastbourne Training College. Boro' S. Dep. £2 2s. Tenders by June 9.

(AR) KINGSTON-UPON-THAMES RBC.—Fixed price tenders for a steel frame two-storey sports pavilion at Norbiton sports ground. TC. Dep. £2 2s.

(AR) PORTSMOUTH CITY C.—(a) 18 houses and six garages at Prince George-st.; (b) 17 flats and maisonettes at St. Paul's Church site; (c) six flats at Alhambra-rd.; (d) 12 bungalows and six flats on site adjoining Flint House. City A. Dep. £1 1s. (each contract).

STOKE-ON-TRENT CITY C.—Extension to Stoke cemetery. City E&S. Dep. £3.

MAY 11

(AR) NORFOLK EC.—(1) Extensions and adaptations at Buxton county prim. sch.; (2) second instalment of Hellesdon sec. mod. sch.; (3) second instalment of Sprowston sec. mod sch.; (4) extensions at Thorpe grammar sch., and (5) erection of one classroom at Swanton Morley voluntary (controlled) sch. Ch. Ed. Officer.

(AR) WANDSWORTH MBC.—Erection of 21 flats at Southcroft-rd., Tooting. TC.

MAY 13

(AR) CAERNARVONSHIRE EC.—Erection of new residential sch. for physically handicapped children at Llandudno. Director of Ed. Dep. £2 2s.

(AR) MERTON & MORDEN UDC.—Erection of modern assembly hall. Tudor-dr. E&S.

MAY 14

(AR) HUYTON-WITH-ROBY UDC.—Fixed price tenders for 193 dwellings and 66 garages at Moscroft Farm estate. Ccl's. A. 'Grasscroft,' Archway-rd., Huyton. Dep. £2 2s.

MAY 16

(A) EPSOM & EWELL BC.—Boundary walling at junction of Wilmerhatch-la. and Headley-rd., Epsom. Boro' E&S. Dep. £2 2s.

MAY 18

(A) BATH CITY C.—Proposed conversion of ground and second floors at 37 Paragon into self-contained flats. S of Corporate Property. Dep. £2 2s.

(A) SUNDERLAND CBC.—Maternity and child welfare clinic at Hylton Castle estate. Boro' A. Dep. £2 2s.

MAY 19

(A) REIGATE BC.—Fixed price tenders for 16 four-storey maisonettes and eight four-storey maisonettes, with stores under, at Dome estate. Boro' S. Dep. £2 2s.

(A) SUNDERLAND CBC.—Erection of garage and alterations to existing buildings at Railway Row cleansing depot. Boro' A. Dep. £2 2s.

MAY 20

(A) GILLINGHAM BC.—Fixed price tenders for 44 dwellings and 16 garages at Church-st. Boro' E. Dep. £5 5s.

MAY 21

(A) CHADDERTON UDC.—Fixed price tenders for 69 dwellings at Broadway housing site. E&S. Dep. £2 2s.

MAY 23

CO. ARMAGH.—Proposed new voluntary prim. sch. at Agha Common, Lurgan, Co. Armagh. Bill of Quantities, etc., from P. J. Davidson, 16 High-st., Belfast. Dep. £5 5s.

(A) SOUTHEND-ON-SEA CBC.—Foundations and erection of prefabricated classrooms at Southchurch high sch. for boys, Ambleside-dr. Boro' A.

MAY 24

(A) LINDSEY CC.—Fixed price tenders for first instalment of prim. sch. at Scampton RAF Camp. County A.

MAY 27

(A) GRAVESEND BC.—34 old people's dwellings in two-storey flats and bungalows on various sites in borough. Boro' E&S.

(A) GREAT YARMOUTH CBC.—Fixed price tenders for:—(a) Public conveniences at Deneside, and (b) 25 aged persons' bungalows at Caister-rd. Boro' E. Dep. £2 2s. (each contract).

MAY 30

(A) BOURNEMOUTH CBC.—Fixed price tenders for new boiler house at East Howe infant sch. Boro' A. Dep. £1 1s.

(AR) NORTH WEST METROPOLITAN REGIONAL HOSPITAL BD.—Proposed developments at Luton and Dunstable hospital, Luton. (Est. cost £500,000.) Regional A., 40 Eastbourne-ter., London, W2.

MAY 31

(A) READING CBC.—Firm price tenders for the construction of a small swimming pool at Geoffrey Field prim. sch. Boro' A.

JUNE 1

(A) ALTON RDC.—66 dwellings at Sutton Field housing site, Whitehill (stage I). E&S. Dep. £3 3s.

SERVICES, PAINTING, MATERIALS, ETC.

MAY 14

(AR) CORNWALL CC.—Fixed price tenders for:—(a) Structural steelwork; (b) metal windows, and (c) electrical services at Perranporth county prim. sch. County A.

MAY 17

(A) HARROW BC.—Renewal of existing lead rising mains and cold water services, etc., at Corporation's Berridge, Wolverton-rd. (Stanmore) and Woodlands-dr. estates. Boro' E&S. Dep. £2 (three contracts).

MAY 31

(A) READING CBC.—Firm price tenders for the internal redecoration of EP Collier sch. Boro' A.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MAY 2

(R) ROMNEY MARSH RDC.—Execution of sewerage and sewage disposal works, comprising the furnishing and laying of approx. 47,500 yd. of spun-iron and stoneware sewers; pumping and air mains; manholes; 17 ejector stations; compressor station; sedimentation tanks, and pumping station, etc. D. Balfour & Sons, 131 Victoria-st., SW1. Dep. £10.

MAY 6

LONDONDERRY RDC.—Supply and laying of approx. 4,567 lin. yd. of 6 in. spun iron pipe; 94 lin. yd. of 4 in. AC pipe, and 952 lin. yd. of 3 in. dia. AC pipe, together with ancillary works from Glendermott sch. to Legaghory, Co. Derry (Ardmore-rd. water scheme). Bill of Quantities, etc., from W. D. R. & R. T. Taggart, constg. engrs., 13 College-gdns., Belfast. Dep. £5 5s.

MAY 9

LYMM UDC.—Fixed price tenders for the construction of approx. 2,250 lin. yd. of 9 to 18 in. dia. concrete pipe sewers, etc. Charles J. Lomax & Son, Ccl's. constg. engrs., 68 Barton Arcade, Manchester 3. Dep. £5 5s.

MIDHURST RDC.—Fixed price tenders for supply and laying of approx. 2½ miles of 6 in. dia. water main, etc., from Graffham to Bex Mill. E&S. Dep. £2 2s.

MAY 10

DUBLIN CORPN.—Reconstruction of the existing dual carriageway at Bluebell, Inchicore. Engineering & Town Planning Dept., 28 Castle-st., Dublin. Dep. £5 5s.

MAY 16

TETBURY RDC.—Reconstruction of Tetbury Sewage Disposal Works. Harvey McGill & Hayes, Ccl's. constg. engrs., 38 Market-pl., Chippenham, Wilts. Dep. £5.

MAY 20

CHAPEL-EN-LE-FRITH RDC. — Fixed price tenders for the construction of a sewage disposal works, comprising tanks, filters, pump house, etc., with approx. 1,600 yd. of 6 to 15 in. sewers, including manholes and sewage ejector station. Brady & Partington, Ccl's engrs., Market-st., Chapel-en-le-Frith. Dep. £5.

MAY 21

DERWENT RDC.—Fixed price tenders for the provision and laying of 3,715 yd. of 4 in. dia. asbestos-cement water mains from Stillingfleet Hill Farm to Escrick. Fairbank & Son, constg. engrs., The Gables, 62a Bootham, York. Dep. £5 5s.

JUNE 7

CHESHIRE CC.—Construction of approx. two miles of motorway from Lymm Interchange to Thelway (Birmingham-Preston

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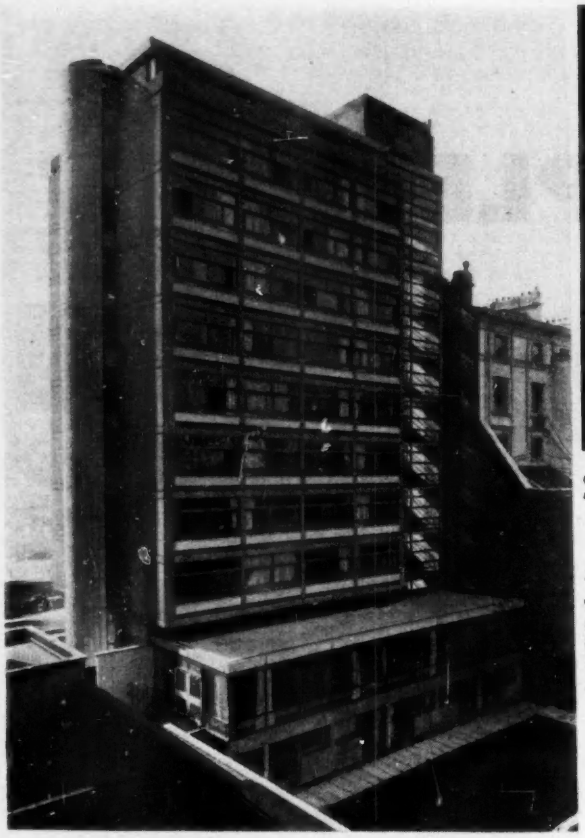

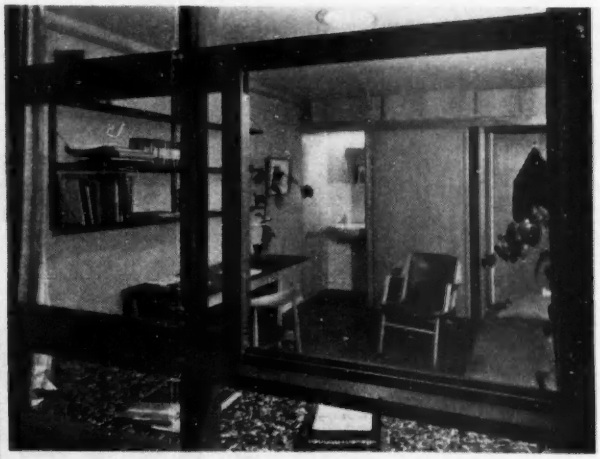

One of the Study Bedrooms showing window frames and built-in wardrobes, toilet alcove and top cupboards.

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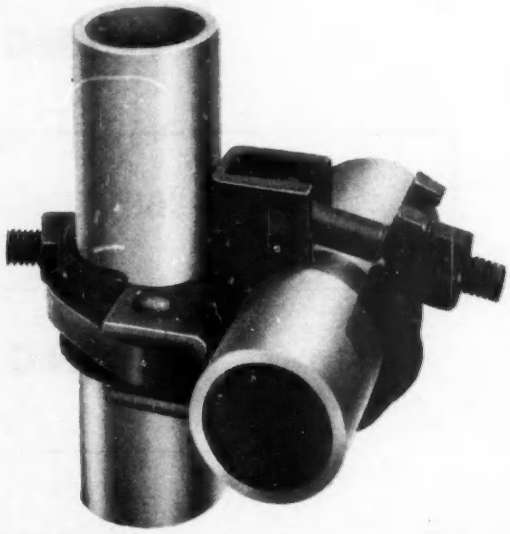

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GENERAL BUILDING WORK (LONDON)

BERMONDSEY. — Dwellings. — MBC to erect 181 dwellings at Barnham-st. buildings as part of 1956/60 slum clearance programme.

CHELSEA.—Redevelopment.—Subject to the consent of the MH&LG and to the receipt of loan sanction, etc., the MBC agree, in principle, to the redevelopment of the Chenil Studios site, comprising offices, etc. Est. cost £134,000.

LAMBETH.—Extensions.—MBC have appointed Davis, Belfield and Everest as quantity surveyors for the Rosendale-rd., extension scheme.

LEWISHAM.—New Baths.—MBC to erect new baths at Lewisham High-st. at an est. cost of £609,815.

ST. MARYLEBONE.—New Medical Institute.—A grant of £100,000 has been made by the Nuffield Foundation to the Zoological Society of London to found an Institute of Comparative Medicine and to provide two senior research fellowships. Mr. Richard Llewelyn Davies, Director of the Nuffield Foundation Division for Architectural Studies and professor-elect of Architecture in the University of London, will design the new building in accordance with the overall plan for the gardens devised by Sir Hugh Casson, in collaboration with Mr. F. A. Stengelhofen, the society's resident architect. The new institute is being planned as an extension—presumably to the west—of the Zoo's present administrative and office block.

ST. PANCRAS. — Housing. — The MBC have considered and approved, for submission to the Planning Authority, detailed drawings for block 'B' of Ferdinand-st. extension, comprising 42 flats.

WANDSWORTH.—Housing.—Plans have been announced by the MBC for the Edgecombe Hall housing scheme, Southfields, which is est. to cost £790,800. There will be 308 dwellings instead of the 312 originally proposed, and there will be two 14-storey blocks. The scheme will be included in the 1961 building programme and operations on the site will start in the summer. . . . MBC plan to erect 59 dwellings on prefab sites at St. Anne's Hill.

(PROVINCIAL)

ABERCONWY.—Caerns. CC propose 2nd instalment of mod. sch. during 1960.

ATHERTON.—UDC propose housing development at Leigh-rd.

BARROW-IN-FURNESS.—Zenith Carburettors Ltd., propose erection of new premises at Park-st.

BEVERLEY.—BC propose erection of 26 houses.

BILLINGHAM-ON-TEES.—J. W. Cameron & Co. Ltd., brewers, Lion Brewery, West Hartlepool, are planning the erection of licensed premises at Cowpen Bewlay. E. M. Lawson, Barras-bldgs., Barras Bridge, Newcastle-on-Tyne, architect.

BILLINGHAM-ON-TEES.—UDC Housing Com. has decided to increase its house building programme for this year from 200 houses to 270.

BIRKENHEAD.—Birkenhead and District Co-operative Society propose erection of self-service store at Old Chester-rd. . . . Liverpool Regional Hospital Bd. propose new hospital at Arrowe Park. . . . Erection of new jun. sch. at Arrowe Hill proposed for Lancs. EC. . . . Following for BC:—Erection of workshop premises at Laird-st. bus depot and extensions and adaptations at high sch. for boys.

BIRKENHEAD.—Higson's Brewery Ltd., Liverpool, propose erection of new PH at Prenton Dell estate.

BISHOP AUCKLAND.—UDC surveyor to prepare plans for old people's houses at Eldon-la., Leasingthorne, Binchester Blocks, Newfield and Witton Park.

BLACKPOOL.—The Montague Group of Companies (Alders Investments) Ltd., Mitcham, Surrey, propose erection of two blocks of 12-storey flats, three blocks of four-storey flats, and garages at Cleveleys Hydro Ground. . . . BC propose erection of new abattoir at Chapel-rd.

BLANDFORD.—TC approved sketch plans and lay-out for four blocks of three-storey flats at Eagle House estate.

BLYTH.—Boro' E. D. W. Foster, to prepare plans for 14 bungalows in the Plesseyrd. and Delaval-gdns. area. . . . TC being recommended to construct a two-mile sea wall as part of a scheme to prevent coast erosion.

BOGNOR REGIS.—West Sussex CC are planning to extend and modernise the teachers' training college at a cost of about £100,000. The scheme includes improved dining room and catering facilities, additional science laboratories, gymnasium, and increased accommodation for students from 180 to 240.

BOLTON.—The Guide Dogs for the Blind Association, Piccadilly, London, W1, propose erection of training centre for guide dogs at Lowndes-st.

BOURNEMOUTH.—Approval has been given to a £77,500 coast protection scheme between Shore-rd. and St. Anne's, involving the building of a sea wall, promenade and groynes. Application is being made to the MH&LG for sanction to borrow money.

BREDBURY & ROMILEY.—UDC propose erection of 48 aged persons' dwellings during 1960.

BRISTOL.—Planning permission has been given for the erection of a new central warehouse and office building for the Iron and Marble Co. Ltd., Bristol. The new building, which will replace the temporary accommodation used since the Company's warehouses were destroyed in the air raids, will extend along a 120 ft. frontage to a depth of 190 ft. The architects are Alec F. French & Partners, and the new premises are expected ot be finished in 18 months. A large lecture room and exhibition hall will be included on the first floor, so that courses and demonstrations can be held for building trade apprentices.

BURNLEY.—Manchester Regional Hospital Bd. propose new sterilising unit at General Hospital.

BURY.—BC to seek Ministry approval to include four additional schools in 1962-63 programme. Est. £300,000.

BURY.—BC propose erection of central bus station.

CARLISLE.—The Governors of St. Patrick's RC sec. sch. have announced their intention of building a four-form entry sec. sch. to replace the existing St. Patrick's sch.

CARLISLE.—W. B. Edwards & Ptnrs., 5 Claremont-bldgs., Newcastle-on-Tyne, have been appointed architects by City C for proposed redevelopment scheme in central area of city, which includes the erection of shops, offices, etc. . . . Acco Ltd., engineers, etc., are to carry out further additions to their premises at Durranhill industrial estate, Carlisle. . . . Ridley (Wholesale Chemists) Ltd., to erect warehouses and offices at Burgh Road industrial site. Architects are Hodgson & Tritton, 18 Bank-st., Carlisle. . . . The Scottish Motor Traction Co. Ltd., propose showrooms, workshops and storage facilities for new cars at Petteril Bridge goods station, and as the scheme represents a departure from the city's planning map, the proposal has been referred to the appropriate Ministry. Architect is F. G. Jackson. . . . Plans are being prepared by Johnston & Wright, 13 Castle-st., Carlisle, for converting the Argyll Cinema, Harraby, into petrol filling station, for County Garage Co., Ltd. . . . Border Engineering Contractors Ltd., Whitehaven, to erect houses nr London-rd., Highwood-cres., and on Eden Park estate.

CHADDERTON.—Pakamac Ltd., Moorside Mills, Oldham, propose alterations to Melbourne Mill, Middleton-rd.

CHEADLE & GATLEY.—UDC have given town planning consent to J. Stewart Ltd., to build 40 houses at Outwood-rd., Heald Green. . . . Conditional consent of amended plans has been granted by UDC to A. Dixon (Builders) Ltd., for five shops, four maisonettes and ten flats at Wilmslow-rd., Cheadle.

CHELFORD.—Cheshire EC propose erection of five-class county prim. sch.

CHESTER.—Following for County EC 1962-63 programme:—Three grammar schs., 26 prim. schs. and nine mod. schools. Est. £4½m.

CHESTER.—TC propose erection of blocks of flats, shops with flats over, at Blacon shopping area. . . . Grosvenor-Laing (Holdings) propose erection of block of flats/houses at Westminster Park.

CHESTERFIELD.—RDC propose erection of 220 houses during 1960 and three new schools at Heath, Beighton and Brimington.

CHESTERFIELD.—BC propose erection of 330 dwellings during 1960.

CORSHAM (Wilts.).—Callen & Chippenham RDC approved revised plans for proposed office block and factory extension at Stokes-rd., Corsham, for Altus Engineering Co.

CREWE.—Cheshire EC propose erection of College of Further Education. Est. £440,150.

CUMBERLAND.—EC has approved a £145,000 development scheme at Newton Rigg Farm sch. County A is J. H. Haughan.

DINNINGTON.—Rother Valley Divisional Education Executive, West Riding, have accepted plans for a comprehensive school for 1,600 pupils at Dinnington, costing nearly £300,000 in its first phase. Work will begin in the autumn and it is expected that the first phase of the ten-form entry sch. will be open in two years. Pupils will be drawn from the present Dinnington sec. mod. sch. and Chelmsford Technical Institute. Basil Spence & Ptnrs., Edinburgh, architects.

DONCASTER.—TC to consider a plan to build houses costing £1,650 to £1,950 each for sale to Corporation tenants or people on the housing list. This was recommended by the Housing Committee recently, who suggested buyers should pay a £50 deposit and borrow the rest of the money from Doncaster Corporation. Such homes would be built at Cantley near land already allocated to private builders.

EASTLEIGH.—Housing Com. recommend spending £190,000 on the modernisation of 1,207 Council houses over next five years.

GATESHEAD.—In an announcement published on March 8, Mr. M. L. Kubik was designated as architect in connection with a transport depot proposed at Gateshead. We have since learned that Mr. Kubik is not an architect, and has never claimed to be one. The building in question will consist primarily of an old ex-service hangar re-erected after necessary modifications. Mr. Kubik regrets that he will not be able to answer or accept any of the offers of co-operation received. We regret the error.

HEYWOOD.—BC propose civil defence headquarters at Taylor-st.

KEIGHLEY.—West Riding EC propose improvements at Highfield sch. and grammar sch. for girls.

LANCS.—Following for EC.—Two classrooms at county sec. sch., Burscough; additional classroom at Melling Ormskirk CoE sch.; cloakrooms/toilets at CoE sch., Skelmersdale.

LEEDS.—Shop & Store Developments Ltd., Guiseley, Yorks, propose developing site after demolition at Butts Court/Albion-st. . . . West Riding CC propose erecting regional headquarters and branch library at Sherburn-in-Elmet. Est. £40,500.

LIVERPOOL.—Following for TC:— 21 houses, eight aged persons' dwellings and 22 flats on various sites; housing development at Broadway, Norris Green. . . . Following for Regional Hospital Bd.:—New Maternity dept. at Chester City Hospital;

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

regional neuro-surgical unit at Walton Hospital; upgrading of geriatric ward at Newsham General Hospital; new physiotherapy and X-ray dept. at Warrington General Hospital, and twin operating theatres at Broadgreen Hospital.

LYTHAM ST. ANNES.—Ministry of Works propose block of offices for Land Registry, Lytham Green. Est. £200,000.

MANCHESTER.—TC propose erection of training centre for Mental Health Service, Curzon-st., Chorlton-on-Medlock. . . . 12 houses at Belgrave-rd., New Moston, are proposed for Craftsmen Houses, Moston-la. east, Manchester 10.

MANSFIELD.—Portland Motor Co. Ltd. propose rebuilding 47/49 West Gate, after demolition of existing premises. . . . Inland & Coastal Agents and Development Co. Ltd., propose six houses and garages at Somersall-st. . . . F. Moss Ltd. propose conversion of workshop into offices at Toothill-la. . . . East Midland Electricity Bd. propose new offices at Ratcliffe Gate. . . . Notts CC propose erection of occupational centre for physically handicapped at Dallas-st.

MELKSHAM.—UDC approved plans for new estate of approx. 100 houses at Halfway Farm, submitted by Tilly & Culverwell, Trowbridge, auctioneers and estate agents.

MIDDLESBROUGH.—The Berwick Hills branch of the British Legion are planning new club premises. . . . Lionweld Ltd. to purchase 6,000 sq. yd. of land in Marsh-rd. area for proposed industrial purposes. . . . TC to spend £22,000 on provision of running and cycling tracks at Clairville recreation ground.

NEWBURN (North'd.).—UDC to erect old people's houses at rear of Runnymede Hotel.

NEWBURY.—Large scale expansion is planned by Stradlings Ltd., Northbrook-st.

NEWCASTLE-ON-TYNE. — Following a public inquiry, the MH&LG have granted permission to William Leech (Builders) Ltd., St. James-st., Newcastle, to erect houses west of Ponteland-rd.

NEWCASTLE-ON-TYNE.—City Schools and Charities Com. to erect 24 cottages on site of Mary Magdalene Hospital, Claremont-rd., Newcastle.

NORTHALLERTON.—Sketch plans have been approved for additional accommodation for nurses at Friarage Hospital for Newcastle Hospital Bd. Bd's Ch. A is P. H. Knighton.

NORTHAMPTON.—Two 12-storey blocks of flats, costing over £300,000 and each rising to a height of 110 ft., are planned as companions for the 90 ft. high 10-storey St. Katherine's-court block in Northampton's central redevelopment area.

NORTH RIDING.—EC's school building programme includes the erection of eight new prim. schools, and instalments of five sec. mod schools, all to cost £750,000.
The Committee have also approved sketch plans for additions to Richmond girls' high sch. and Nunthorpe mod. sch.

NORTH'D.—CC approved revised estimates for proposed Newbiggin Hall sec. sch. (£183,000); Newbiggin Hall North prim. sch. (£120,000); Newbiggin Hall South prim. sch. (£58,000); Old Hartley infants' sch. (£27,000); Forest Hall infants' sch. (£53,000); and Kielder prim sch. (£39,000). County A is C. C. Brown.

NORTHUMBERLAND. — EC approved revised estimates amounting to £21,000 for remodelling of Millfield prim. sch.

NOTTINGHAM.—TC propose erection of jun./infants sch. at Claremont. Est. £52,910. . . . Land & General Developments Ltd. Berkeley-st., London, W1, propose block of flats/bar and restaurant at Trent Bridge.

OLDHAM.—Following for TC:— Residential home at Mirland Fold-la.; 450 houses proposed for 1960.

OLDHAM.—BC propose improvements at Town Hall. Est. £21,408.

PETERLEE.—J. Nimmo & Sons, Castle Eden, have been granted permission by magistrates to erect a PH in the town centre of Peterlee. Plans are by the brewery company's own architect, J. F. Johnson.

QUEDGELEY (Gloucester).—A new town, with a population of 5,000, is envisaged for Quedgeley. The town, which it is est. to cost between £5m. and £6m. to build, will have its own shopping centre complete with civic centre, post office, fire station, swimming pool, gardens, four modern schools and two churches. There will be between 1,250 and 1,500 new houses, and blocks of seven-storey flats.

RAWTENSTALL.—BC propose bungalow development at Peers Clough-rd.

RINGWOOD.—Ringwood and Fordingbridge RDC are to apply for planning permission in respect of a lay-out plan for 96 units of accommodation with provision for up to 90 garages on 10 acres opposite Crown Copse, Bransgore.

RIPON.—TC propose erecting 34 dwellings during 1960.

ROCHDALE.—David Bridge & Co. Ltd., propose building erecting shop, offices and car park.

SALFORD.—EC propose erection of ESN sch. at Fernhill.

SCARBOROUGH.—TC received Ministry sanction to borrow £20,000 for proposed improvements to the Spa Ballroom. . . . Plans have been prepared by W. S. Gray, Holbeck-ave., Scarborough, for additions to Convent of the Ladies of Mary, St. Thomas-st., Scarborough. . . . E. T. W. Dennis & Sons Ltd. to extend their printing works at Melrose-st. . . . North Riding of Yorkshire CC to extend the Filey-rd. Training College.

SCARBOROUGH.—Finance Committee of BC recommended that application should be made to the MH&LG for consent to borrow £88,175 to cover the cost of building 48 flats at Manham Hill, Eastfield, by Gregory Construction Ltd., of Huddersfield and £47,065 for 24 flats to be built by F. Shepherd & Sons Ltd., of York. The Com. also approved sketch plans for extensions to the Town Hall at St. Nicholas-st. and recommended that Mr. V. Forshaw (the Borough Engineer) should be invited to submit detailed plans and estimates.

SCARBOROUGH.—J. H. Napper, 133 Osborne-rd., Newcastle-on-Tyne, has been appointed architect for proposed Scarborough girls' mod. sch. for North Riding EC.

SHEFFIELD.—EC propose Stage II of Myers Grove sec. sch. . . . Following for TC:— 114 dwellings, one shop and 36 garages at Bramwell-st., Netherthorpe; housing development on 18 acres of land at Middlewood-rd.

SHREWSBURY.—F. W. Woolworth & Co. Ltd., propose erection of new store after demolition of old at Castle-st.

SIMONSTONE (Lancs.).—Lancs. EC propose erecting three-class sch. to replace CoE sch. Est. £20,000.

STOCKTON-ON-TEES.—RDC have approved in general a layout plan by J. T. Bell & Son for approx. 615 houses and bungalows at Rosedale Farm. . . . C. M. Yuill Ltd. are seeking permission to develop land at Junction Farm. . . . J. Tennent, bldr., Prince Regent-st., Stockton, to erect houses at Chesham-rd., Norton.

STOKE-ON-TRENT.—Erection of postal sorting office at Station-rd. is proposed. Est. £280,000.

SUNDERLAND.—S. W. Milburn & Ptnrs., 9 Esplanade, Sunderland, are the architects for proposed additions to offices at the Crown Works of Messrs. Steel & Co. Ltd.

TYNEMOUTH.—TC Housing Com. to erect 11 three-bedroomed houses and 12 one-bedroomed flats at Ridges estate.

WAKEFIELD.—Sir Lindsay Parkinson & Co., Ltd., propose private housing estate at Pease House Farm, Batley-rd., 74 plots.

WATFORD (Herts.).—RDC applying to MH&LG for consent to borrow £117,862 for 48 flats at Oxhey-pl., South Oxhey.

WESSEX.—In the next 12 years the Wessex Regional Hospital Bd. plan to spend more than £17m. on new hospital projects in its area. The plan, which involves 17 major projects, five of them already approved by the MoH, includes the re-building of Poole General Hospital in two stages—the first of which has already begun. The second stage of the Poole scheme, costing just over £1m., is planned for completion in 1965-66. Also included in the board's programme is the re-building of the Royal Hampshire County Hospital, Winchester, and the Queen Alexandra Hospital, Portsmouth, and the provision of a neuro-surgery unit at Southampton General Hospital.

WEST HARTLEPOOL.—TC to build flats at Hilda-st. and Ramsey-st.

WHITCHURCH (Hants.). — Glambridge Ltd. to go ahead with plans to establish a factory to manufacture 'Go-Karts.'

WHITEFIELD.—Lancs. EC propose new public library at Pinfold-la.

WHITLEY BAY.—Consideration is to be given to a scheme for the development of the YMCA centre at South Parade, Whitley Bay. Cost is est. at £30,000. Architects are S. W. Milburn & Ptnrs., 9 Esplanade, Sunderland.

WIGAN.—Erection of office block proposed for Ministries of Labour, Pensions & National Insurance, and the Inland Revenue and National Assistance Bds. Est. £59,300. . . . Edmund Taylor (Engineers) Ltd. propose extension to factory at Skull House-la., Appleby Bridge.

WIGAN.—TC propose flats/maisonettes at Lime-st. and erection of 3,000 houses during next six years.

WILTSHIRE.—About £10m. is to be spent on military rebuilding and slum clearance on Salisbury Plain during the next six or seven years. The building programme includes the redevelopment of Larkhill, the home of the School of Artillery; provision of a district or divisional headquarters and three main barracks at Bulford; seven main barracks, a general hospital and a command ordnance depôt at Tidworth; two main barracks at Perham Down, and a medical equipment depôt at Ludgershall.

WIMBORNE (Dorset).—Mr. Albert W. Lambert proposes to convert The Dormers, Wimborne, an old house near the main square, into a motel. Est. £60,000.

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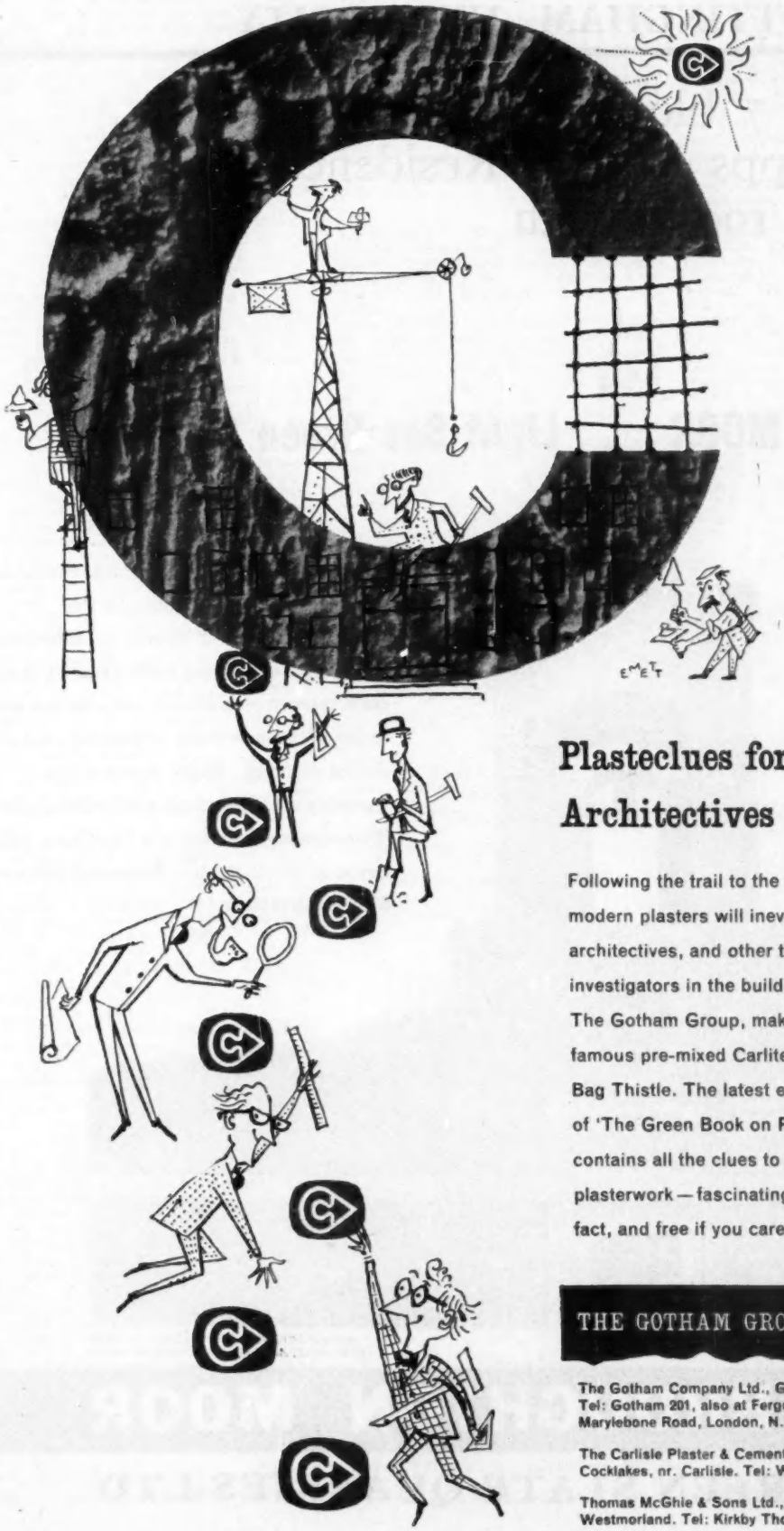
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ARGYLLSHIRE.—Construction of a barrage, intake, small power station and certain



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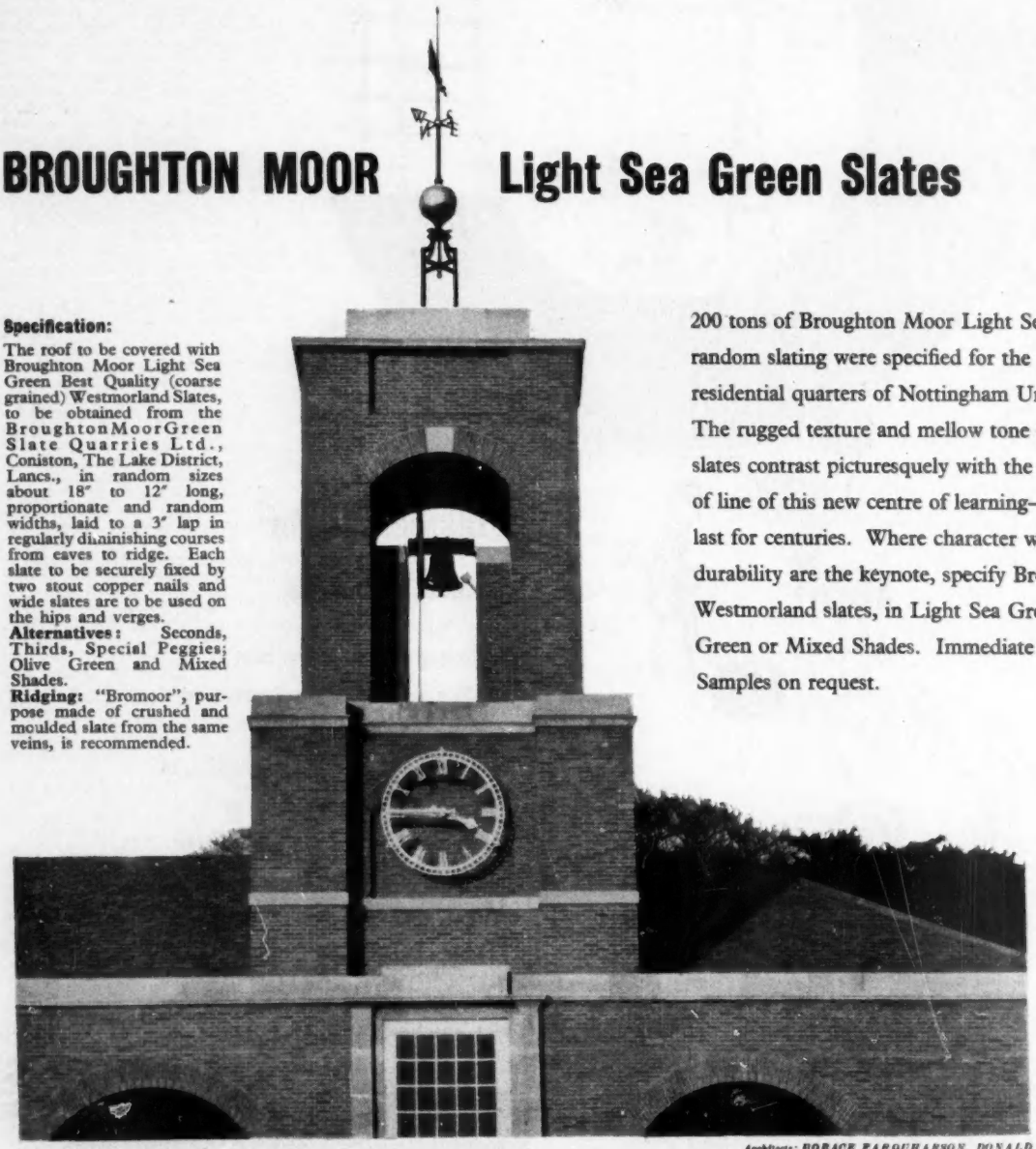

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ancillary works on the River Awe, nr. Taynuilt, for the North of Scotland Hydro-Electric Bd. (A) The Mitchell Construction Co., Peterborough.

BIRMINGHAM.—New office building at Edgbaston for Norwich Union Life Insurance Society. John H. D. Madin, architect. Fredk. S. Snow & Ptnrs., constg. engrs. Jack Stockings & Clarke, quantity surveyors. (A) Mitchell Construction Co. Ltd.

BLACKPOOL.—New church and presbytery at Common Edge-rd. for the Rev. F. Carter, Our Lady of the Assumption, Blackpool. (A) Mowbray Building Co. Ltd., £33,000.

BRIDGWATER.—Construction of Hawkbridge Reservoir in Quantock Hills area for BC. John Taylor & Sons, constg. engrs. (A) M. J. Gleeson (Contractors) Ltd., North Cheam, Surrey, £316,000 (approx.).

CARDIFF.—New filling station at Albany-rd. for the National Benzole Co. Ltd. Henry A. Ellis & Son, Mardy-chbrs., 6 Wind-st., Swansea, architects. B. W. Ellis, 90 Mansel-st., Swansea, quantity surveyor. (A) E. Turner & Sons Ltd., Penarth-rd., Cardiff.

CARLISLE.—Proposed improvements at Wigton-rd. for City C. City E is L. J. A. Tow. (A) Michael Thompson Ltd., St. Ninian's-rd., Carlisle, £74,370 (in lieu of tender withdrawn).

CHELMSFORD.—Extensions to Mid-Essex Technical College, Chelmsford, for Essex CC. (A) Gray Conoley & Co. Ltd., £185,249.

COLERAINE (Co. Londonderry).—Improvements at chest clinic, Hanover-pl., for the Coleraine & Portrush Hospital Management Com. (A) Robert Platt & Sons, West Park, Portstewart.

CORBY.—(1) Erection of Beanfield sec. mod. sch., and (2) extensions to Studfall infants' sch. for UDC. (A) Drabble Construction Ltd., £162,020 and £12,063, respectively.

CO. DOWN.—Erection of an old people's home at Kilkeel-rd., Newcastle, for County Welfare Com. (A) Bovaird & Ferguson, Ballynahirk, Co. Down, £81,382.—Erection of new child health clinic and library at Gilnahirk, for County Health Com. (A) John Boyd & Sons, Dundonald, £17,723.

DERBY.—Erection of physics laboratory and art buildings at Abbotsholme sch. Bartlett & Gray, architects. M. E. G. Felton, quantity surveyor. (A) Ford & Western Ltd., £11,813.

DUNDEE.—36 houses, first development of the Pleasance housing scheme, for City C. (A) Direct labour, £46,879.

FELLING.—Erection of RC church and presbytery at Colegate-la. David Brown, 10 Lambton-rd., Jesmond, Newcastle-on-Tyne, architect. (A) Gordon Durham & Co. Ltd., Moor-la, East Boldon.

FRIMLEY & CAMBERLEY.—Extensions to municipal buildings, Camberley, for UDC. (A) Henry Boot and Sons Ltd., 10 The Boltons, London, SW10.

GUILDFORD, GODALMING & DISTRICT WATER BD.—Erection of offices and stores at Millmead. Scott, Brownrig & Turner, architects. J. B. Marks & Ptnrs., quantity surveyors.

Howard & Co.	£10,844
A. B. Johnson Ltd.	10,747
W. H. Gaze & Sons Ltd.	10,654
R. G. Powers Ltd.	10,285
Bayford Builders Ltd.	10,271
Stanley Ellis Ltd.	10,019
Jackson & Gocher Ltd.	9,618
R. Holford & Co. Ltd.	9,523
(A) C. Neal & Son Ltd.	8,700

HAMBLEDON.—(a) Five bungalows at Pathfields, Chiddingfold, and (b) 15 at Parsonage-rd., Cranleigh, for RDC. E&S is R. F. Caple. (A) R. J. Stagg Ltd., Chiddingfold, £8,432, and Godalming Building & Construction Co. Ltd., £8,506, respectively.

HEMEL HEMPSTEAD.—Flats at Adeyfield and Gadebridge for Development Corpn. Peter Dunham, Widdup & Harrison, architects. Venning, Hope & Ptnrs., quantity surveyors. (A) Y. J. Lovell (Bucks) Ltd., Gerrards Cross, £159,008.

IRTHLINGBOROUGH.—Erection of sec. mod. sch. for UDC. (A) R. Marriot Ltd., £139,547.

LAMBETH.—52 flats, 12 maisonettes, one shop, 39 garages and incidental works, comprising fifth stage of Studley-rd. scheme for MBC.

	Fluctuation Clause	Fixed Price
Rowley Bros. Ltd. ...	£180,300	£182,300
M. J. Gleeson (Contractors) Ltd.	179,950	180,975
Wm. Moss & Sons Ltd.	178,158	179,898
Tersons Ltd.	—	179,890
Wilson Lovatt & Sons Ltd.	170,557	172,022
J. Jarvis & Sons Ltd. ...	165,471	166,221
(GD) Pauling Construction Ltd.	164,165	166,125 (Fixed price tender).

LIVERPOOL.—128 dwellings and 48 garages at Beechwood for TC. (A) Direct labour, £236,945.—Prefabricated building at Mental Health Centre for TC. (A) Tyson's (Contractors) Ltd., Dryden-st., Liverpool 5, £20,976.

(GD) LONDON (Admiralty). — Contracts over £1,000 in value:—Lancashire: Alterations to buildings, G. H. Smith (Liverpool) Ltd., Liverpool. Kent: Plastering, Dennis & Etherington, Rochester. Devon: Building, EBC & Sleeman Ltd., Exeter. Fife; Test piling, H. M. Murray & Co. Ltd., Glasgow,C2.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended April 8:—*Building work:* Abingdon, Berks., T. H. Kingerlee & Sons Ltd., 35A Queen-st., Oxford; Colerne, Wilts., S. W. Foster Ltd., Coombend, Radstock, Bath, Somerset; Benson, Oxon., Stanley Hugh Leach Ltd., 231/231A Yeading-la., Hayes, Middx.; Biggin Hill, Kent, Woodcock Marshall & Co. Ltd., 2 Westbourne Grove Mews, London, W11; Feltwell, Norfolk, T. Gill & Son (Norwich) Ltd., Hall-rd., Norwich, Norfolk; Middleton St. George, Co. Durham, F. Shepherd & Son Ltd., Blue Bridge-la., York. *Road construction:* Llanbedr, Merionethshire, F. Parkinson & Sons Ltd., Mowbray-dr., Blackpool, Lancs.; Brizlee Wood, Northumberland, George Wimpey & Co. Ltd., Hammersmith Grove, London, W6. *Resurfacing taxiway, etc.:* Waterbeach, Cambs., Chittenden & Simmons, Ltd., Ditton Park, Larkfield, Maidstone, Kent. *Concrete foundations, etc.:* Watton, Norfolk, Walter Lawrence & Son Ltd., Ventnor-hse., London-st., Swaffham, Norfolk. *Modifications to heating systems, etc.:* Prestwick Airport, Ayrshire, Richard Crittall & Co. Ltd., 136 Wellington-st., Glasgow, C2. *Collection, removal and disposal of oil, etc. from oil traps:* RAF and USAF stations within Headquarters, Air Ministry Directorate General of Works, No. 8 works area block 'D,' Brooklands-ave., Cambridge, Tovey Transport Ltd., 26 Romsey-terr., Mill-rd., Cambridge. *Artificers' work:* Sennen, Cornwall, etc., Dudley Coles Ltd., 13-16 Bath-st., Plymouth, Devon; Hawkinge (Kent), etc., J. J. Clayson & Son Ltd., Lyminge, Folkestone, Kent.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for the week ended April 15 and 22:—*Building work:* London Airport, Middlesex, W. H. Gaze & Sons Ltd., 45 Victoria-rd., Surbiton, Surrey; Ballykelly, N. Ireland, J. Kennedy & Co. (Contractors) Ltd., Society-st., Coleraine, N. Ireland; Scampton, Lincs., Frank R. Eccleshare Ltd., Dixon-st., Lincoln; (2 contracts), Farnborough, Hants., Walter Llewellyn & Sons Ltd., 79 Davies-st., London, W1; Coltishall, Norfolk, J. Youngs & Son Ltd., PO Box No. 32, Norwich, Norfolk. *Runway reconstruction:* Ballykelly, N. Ireland, F. B. McKee & Co. Ltd., 9 Shore-rd., Belfast, N. Ireland. *Artificers' work:* Waltham, Berks., Kyle Stewart (Contractors) Ltd., Ardshiel-hse., Empire Way, Wembley, Middlesex. *Painting work:* Bicester, Oxford (Oxon.), etc., Ian Williams & Co. Ltd., Wroughton-pl., Ely, Cambs. *Electrical installations:* RAF Stations within Headquarters, Air Ministry Directorate General of Works No. 7 works area, The Grove, Falmouth-ave., Newmarket, Suffolk, Norwich Electrical Co. Ltd., Dereham-rd., Norwich, Norfolk, and London Electricity Board, 81 Chelsea Manor-st., London, SW3; Lakenheath, Suffolk, The Sunderland Forge & Engineering Co. Ltd., Creechurch-hse., Creechurch-la., EC3. *Mooring & salvage work:* RAF Stations within Headquarters, Air Ministry Directorate General of Works No. 4 works area, Underclyff-hse., London-rd., Appleton, Warrington, Lancs., Hancocks Shipbuilding Co. (Pembroke) Ltd., Dry Docks, Pembroke Dock, Pembs.

(GD) LONDON (British Railways).—Contract placed by Eastern Region:—Arundel (Contractors) Ltd., 70 Harris-st., Bradford, cleaning and painting of buildings, structures and bridges including lineside work, between Clapton Tunnel and Chingford Station.

(GD) LONDON (Metropolitan Police).—Contracts for redecoration works:—Internal redecoration and external painting, Pickering House, Windmill-la., Ealing, The Middlesex Paint Craftsmen, £1,400.—Internal redecoration and external painting, Hammersmith Police Station, Galbraith Bros. Ltd., £2,212.—Internal redecoration and external painting, Garrett-la., Tooting, Alfred Bros. Ltd., £588.—Internal redecoration and external painting, 'Brooklyn,' Auerley-rd., Penge, Geo. Barker (Builders) Ltd., £6,063.

(GD) LONDON (MoW).—Contracts for week ended April 16:—*Aberdeenshire:* Post Office radio station, Granite Hill, Aberdeen, erection, Donald C. Stewart, 38 Ellon-rd., Bridge of Don, Aberdeen. *Buckinghamshire:* Telephone exchange, High-st., Langley, erection, W. S. Try Ltd., High-st., Cowley, Uxbridge, Middx. *London:* Royal Courts of Justice, WC2, attendance on engineers, T. G. Waterman Ltd., 187/189 Whitechapel-rd., E1; British Museum, WC1, repairs to glazed roofs, etc., Helliwell & Co. Ltd., 24 Ashley-pl., SW1; Government offices (Zone 16), SW1, modernisation and internal painting, Howe & White Ltd., 35 Manor-rd., Wallington, Surrey; Sub-district office, Charlton, SE7, erection, Thomas & Edge Ltd., 52 Macbean-st., Woolwich, SE18; Royal Naval College, Greenwich, SE10, electrical installation, Walker Clinging & Co., 16 Perry Hill, Catford, SE6; Mount Pleasant letter office block, EC1, fire precaution work, T. G. Waterman Ltd., 187/9 Whitechapel-rd., E1. *Yorkshire:* RAF station airfield, Pollington, Snaith, resurfacing roads, Norman W. Dunn & Co. Ltd., 1 East Mount-rd., York.

LONGBENTON (Northd.). — Proposed extensions to research laboratories for Thomas Hedley & Co. Ltd., St. Nicholas-ave., Gosforth, Newcastle-on-Tyne. L. J. Couves & Ptnrs., Grainger-chbrs., Hood-st., Newcastle, architects, in conjunction with S.

Reports by the Central Council for the Care of Churches.

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Burn, Hedley's staff architect. (A) R. Bowey & Son, South Gosforth, £40,000.

MANCHESTER.—Following for TC:—Extensions at new Moston sec. sch. (A) Normanton Jones & Co. Ltd., Manchester.—Extensions at Nicholls county sec sch. (A) Harry Wimpenny & Sons Ltd., Clough Sawmills, Prestwich.—12 houses at Lightbowne-rd., Boston. (A) F. Gannon & Con (Manchester) Ltd., Osborne-rd., Manchester 16.—27 dwellings at Partington overspill site. (A) Direct labour.—Five shops, five garages and five maisonettes at Lomond-rd., Peel Hall. (A) F. J. Gibson (Builder) Ltd., Wilmslow, Ches.

MELTON & BELVOIR (Leicester) RDC.—Construction of the Bottesford sewerage scheme. (GD) W. J. Roberts (Bottesford) Ltd., £99,968.

MIDDLESEX.—Works comprising the Rammey Marsh Sludge Disposal Works, Enfield. J. D. & D. M. Watson, const. engrs. (A) Howard Farrow Ltd., £260,000.

MILFORD HAVEN. — 27 bungalows (second phase) at Marble Hall for UDC. (RA) Henry Adams & Sons, £23,845.

ST. PANCRAS.—Following for MBC:—Modernisation of public laundry at Prince of Wales-rd. baths. (A) Holloway Brothers (London) Ltd., £38,722 (firm price and negotiated tender).—Erection of branch library and six maisonettes at Sharples Hall-st. housing scheme. (RA) Harry Neal Ltd., £39,100.—Erection of branch library, two shops, nine flats and nine garages for Kentish Town-rd. housing scheme. (RA) Direct labour, £72,000.

SHEFFIELD.—Following for City C:—40 dwellings and 20 garages at Lindsay-rd., Parson Cross. (RA) M. J. Gleeson (Contractors) Ltd., £84,053.—72 dwellings and 34 garages. (RA) J. F. Finnegan & Co. (Sheffield) Ltd., £142,000.

SHEFFIELD.—Boiler house at Edward VII Hospital for Regional Hospital Bd. (A) Ackroyd & Abbott Ltd., Willoughby-st., Sheffield 4, £22,924.—New cinema at Angle-st./Bank-st., for Associated British Cinemas Ltd. (A) George Longdon & Son Ltd., St. Peter's Close, Sheffield 1.

SOUTHWARK. — Additions to The Borough Polytechnic sch. Norman & Dawbarn, architects. Wm. C. Inman & Pntrs. quantity surveyors. (A) Y. J. Lovell (London) Ltd., £51,262.

STEPNEY.—20 maisonettes at Ratcliffe House site for MBC. Boro' E&S is H. Gale. Messrs. Gleeds, 106 Regent-st., W1, quantity surveyors. (A) Soar & Co. Ltd., 231 Lower-rd., Rotherhithe, £52,341.

STOCKTON-ON-TEES.—Proposed relief sewer at Junction-rd. for the TC. (A) T. R. Illingworth & Co. Ltd., Peterlee, Co. Durham, £16,194.

SUNDERLAND. — Reconstruction of Pallion New-rd. and Westmoor-rd. for TC. Boro' E is T. Donkin. (A) Edwin Clarkson Ltd., East Boldon, £13,314.—Construction of part of new trunk road linking North Bridge-st. with seafront for TC. (A) Edwin Clarkson Ltd., £40,502.—Erection of clothing factory to employ about 1,000 people for Jackson the Tailor Ltd., Clayton-st., Newcastle-on-Tyne. S. J. Stephenson, Gillis & Ptnrs., architects. (A) Shield Bros., Swalwell, Co. Durham, £250,000.

TIPTON.—12 flats and three garages at Alexandra-rd. for BC. (A) Direct labour, £19,300.

TORQUAY.—Erection of a three-floor department store at the Strand for Bobby & Co. Ltd. (A) Staverton Contractors Ltd., Totnes, Devon, £63,354.

WEST HARTLEPOOL.—30 houses at Seaton Carew for TC. (A) G. M. Pearson & Son, Front-st., Hetton, Co. Durham, £38,740.

WESTMINSTER.—Extensions to Royal College of Surgeons, Lincoln's Inn Fields, WC2. Young & Hall, architects. Eric Lynde & Ptnrs., quantity surveyors. (A) Y. J. Lovell (London) Ltd., Thorne-hse., Endsleigh-gdns., WC1, £341,313 (negotiated tender).

WESTMINSTER.—Reconstruction of 10, 11 and 12 Downing-st. and Treasury buildings, Whitehall for MoW. Raymond Erith, ARA, architect. (A) John Mowlem & Co. Ltd. Est. £1½m.

WORCESTERSHIRE.—Construction of 15 miles of motorway from Warndon, east of Worcester, to Brockeridge Common, Gloucestershire, for City C. (A) A. Monk & Co., £3,749,694.

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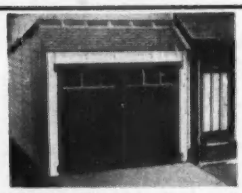

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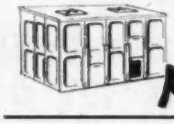

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

EASTBOURNE
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

LANGNEY VILLAGE HOUSING ESTATE, SECTION 19-24 HOUSES.

TENDERS are invited for the above contract, which includes three police houses.

Applications for Tendering documents must be delivered to the Borough Surveyor, 2 and 4 Saffrons-road, Eastbourne, on or before 30th April, 1960, and be accompanied by a deposit cheque of £2 2s. 0d., payable to the Eastbourne Corporation, which will be returned upon receipt of a bona fide Tender.

Tendering documents will be issued on or about the 3rd May, 1960, and Tenders must be delivered to the undersigned not later than 12 NOON on TUESDAY, 24th MAY, 1960. No Tender will be considered unless sent in the envelope provided, which must not bear any name or mark indicating the sender.

The lowest or any Tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
19th April, 1960.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for the ERECTION OF MATERNITY AND CHILD WELFARE CLINIC, Hylton Castle Estate.

Tender documents obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, on payment of £2 2s. 0d. deposit, refundable on receipt of a bona fide Tender. Cheques payable to "Sunderland Corporation."

Sealed Tenders endorsed "Tender for Maternity and Child Welfare Clinic, Hylton Castle Estate," must be received at my office, Town Hall, not later than 18th MAY, 1960.

G. S. McINTIRE,
Town Clerk.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for ERECTION OF NEW GARAGE AND ALTERATIONS TO EXISTING BUILDINGS, Railway Row Cleansing Depot.

Bills of Quantities and Form of Tender obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, on payment of £2 2s. 0d. deposit, refundable on receipt of a bona fide Tender. Cheques payable to "Sunderland Corporation."

Sealed tenders endorsed "Tender for New Garage and Alterations to existing Buildings, Railway Row," must be received at my office, Town Hall, not later than 19th MAY, 1960.

G. S. McINTIRE,
Town Clerk.

REIGATE
BOROUGH.

1 BLOCK OF 16 4-STOREY MAISONETTES AND 1 BLOCK OF 8 4-STOREY MAISONETTES WITH STORES UNDER, AT THE DOME ESTATE, REDHILL

FIXED PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Form of Tender, Specification, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. 0d. Closing date for receipt of Tenders, noon, 19th MAY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

CHADDERTON
URBAN DISTRICT COUNCIL.

HAMILTON-STREET AND BROADWAY.

ERECTION OF 69 DWELLINGS.

Fixed price TENDERS are invited for the ERECTION OF THREE TWO-BEDROOM-TYPE HOUSES on the Hamilton-street Housing Site, and for 12 ONE-BEDROOM-TYPE BUNGALOWS, 28 TWO-BEDROOM-TYPE HOUSES and 26 THREE-BEDROOM-TYPE HOUSES on the Broadway Housing Site.

Specifications, Bills of Quantities, Form of Tender, etc., may be obtained from the Engineer and Surveyor, Town Hall, Chadderton, on payment of a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide Tender.

Plans and Conditions of Contract can be inspected and any further information obtained at the office of the Engineer and Surveyor.

Tenders, in plain sealed envelopes, endorsed "Tender for Houses—Hamilton-street and Broadway Sites" must be received by the undersigned by the 21st MAY, 1960.

L. STOTT,
Clerk of the Council.

Town Hall,
Chadderton.
13th April, 1960.

GRAVESEND
BOROUGH.

ERECTION OF 34 OLD PERSONS' DWELLINGS IN TWO-STOREY FLATS AND BUNGALOWS.

TENDERS are invited for the ERECTION OF 28 SINGLE-BEDROOM TWO-STOREY FLATS IN SEVEN BLOCKS and 6 ONE-BEDROOM BUNGALOWS IN THREE PAIRS. The dwellings are to be erected on four widely scattered sites in the Borough, with not more than sixteen dwellings on any one site.

Bills of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend, on or after 29th APRIL, 1960. Drawings may be inspected at the office of the Borough Engineer and Surveyor during normal office hours.

Forms of Tender in the envelope provided and bearing no other mark or indication of the sender, are to be returned to the undersigned not later than FRIDAY, 27th MAY, 1960.

The Council does not bind itself to accept the lowest or any tender.

F. W. HARRISON,
Town Clerk.

Municipal Offices,
Woodville-terrace,
Gravesend.
April, 1960.

BATH CITY
CORPORATE PROPERTY COMMITTEE.

TENDERS are invited for the proposed CONVERSION OF THE GROUND AND SECOND FLOORS INTO SELF-CONTAINED FLATS at No. 37, Paragon, Bath.

Copies of the Specification and drawing may be obtained from the Surveyor of Corporate Property, Guildhall, Bath, on payment of £2 2s. 0d. deposit which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders to be returned to the undersigned not later than WEDNESDAY, 18th MAY, 1960, in the special envelope provided.

The Corporation do not undertake to accept the lowest or any Tender.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.
29th April, 1960.

SALFORD
CITY EDUCATION COMMITTEE.

Firm price TENDERS are invited for work in connection with the DEVELOPMENT OF PLAYING FIELDS at St. Lawrence Roman Catholic Secondary Modern School, Weaste-lane, Salford.

Applications should be made to Messrs. W. & J. B. Ellis, F./A.R.I.B.A., Chartered Architects, Barclays Bank Buildings, Hardshaw-street, St. Helens, not later than 10.30 a.m. on WEDNESDAY, 4th MAY, 1960.

A cheque for £2 2s. 0d. as deposit, made payable to Salford Education Committee, should accompany the application, which sum being refunded on receipt of a bona-fide Tender.

General Conditions of Contract, Bill of Quantities, and full Tender instructions will be issued by the Architects. The Contractor whose Tender is accepted will be required to provide satisfactory surety for the due performance of the contract.

The Council is not bound to accept the lowest or any Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

LINDSEY
COUNTY COUNCIL.

Fixed Price TENDERS are invited for the ERECTION OF THE FIRST INSTALMENT OF A PRIMARY SCHOOL at the R.A.F. Camp, Scampton, containing approximately 4,600 feet super floor space.

Bills of Quantities may be obtained from A. Ronald Clark, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, who must receive Tenders by 10 a.m. on TUESDAY, 24th MAY, 1960.

County Offices,
Lincoln.

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited, on a 'Fixed Price' basis for the ERECTION of a NEW BOILER HOUSE at East Howe Infants' School.

Specification and Tender Forms obtainable from, and Conditions of Contract and Drawings inspected at, the Borough Architect's Office (Room 105), Town Hall, Bournemouth, on payment of a deposit of one guinea, refundable on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m., 30th MAY, 1960.

A. LINDSAY CLEGG,
Town Clerk.

HARROW
BOROUGH.

RENEWAL OF FENCES, ETC.

TENDERS are invited for the REPLACEMENT OF FENCES, FRONT GATES AND POSTS, and PROVISION OF CLOSE BOARDED SCREENS on the Corporation's Elstree Hill Estate, Elstree, Herts.

Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender and Specification obtained on application to, the Borough Engineer and Surveyor, Council Offices, "Cottesmore," 48 Uxbridge-road, Stanmore, Middlesex, upon payment of Two Pounds, by crossed cheque, made payable to the Harrow Corporation, and returnable where a bona fide Tender reaches me within the prescribed time.

Tenders, on the prescribed form, must be enclosed in plain sealed envelopes, bearing no indication or mark of the sender and carrying the label provided, suitably endorsed, and delivered to my Office, not later than 10 a.m. on TUESDAY, 17th MAY, 1960.

The Corporation does not bind itself to accept the lowest, or any, Tender.

D. H. PRITCHARD,
Town Clerk.

HARROW
BOROUGH.

FENCING AND ACCOMMODATION WORKS.

TENDERS are invited for FENCING AND ACCOMMODATION WORKS in Marsh-road, Pinner, consisting of the building of dwarf walls, mass concrete retaining walls and erection of gates and fences and similar works at eleven properties.

Drawings and Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained on application to, the Borough Engineer, at the Council Offices, 48 Uxbridge-road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque, made payable to the Harrow Borough Council, returnable where a bona fide Tender reaches me within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender and endorsed "Tender—Accommodation Works, Marsh-road," to be delivered to my office not later than 10 a.m. TUESDAY, 10th MAY, 1960.

The Council do not bind themselves to accept the lowest, or any, Tender.

DAVID PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow,
Middlesex.

DURHAM
COUNTY COUNCIL.

TENDERS invited :

Ryton Child Welfare Centre and Dental Clinic—HEATING INSTALLATION.

STANDARD POLICE HOUSES TYPE "C"

Redwood, Esh Winning—ERECTION OF SINGLE HOUSE WITH OFFICE.

Application for further details to County Architect, South-street, Durham, not later than 4th MAY, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

HUYTON-WITH-ROBY
URBAN DISTRICT COUNCIL.

43 THREE-BEDROOMED HOUSES, 150 THREE-STOREY FLATS, 66 GARAGES.
MOSSCROFT FARM ESTATE (STAGE 6), HUYTON.

TENDERS on a Fixed Price Basis are invited for the ERECTION of the above dwellings.

Applications to tender to the Architect, "Grasscroft," Archway-road, Huyton, by 14th MAY, enclosing £2 2s. deposit, refundable on receipt of bona fide tender.

The Council does not bind itself to accept the lowest or any tender.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Huyton,
Lancs.

CORNWALL
COUNTY.

PERRANPORTH COUNTY PRIMARY SCHOOL.

Notice is hereby given of the intention to let separately the Sub-Contracts for

(a) STRUCTURAL STEELWORK.
(b) METAL WINDOWS AND DOORS.
(c) ELECTRICAL SERVICES.

Applications are invited for permission to submit Fixed Price TENDERS for these Sub-Contracts and should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 14th MAY, 1960, from which a selected number of firms will be invited to Tender. The closing date for receipt of Tenders will be notified when the documents are despatched.

The lowest or any Tender will not necessarily be accepted nor will the County Council pay to Contractors any fees or expenses incurred in the preparation of Tenders.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
21st April, 1960.

READING
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the INTERNAL REDECORATION of E. P. Collier School. General Conditions may be inspected and Specifications obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by NOON, 31st MAY, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

ALTON
RURAL DISTRICT COUNCIL.

SUTTON FIELD, WHITEHILL, HOUSING SITE.
STAGE 1.

TENDERS are invited for the ERECTION OF 66 DWELLINGS on land adjacent to the Police Station at Whitehill.

Drawings may be inspected in the office of the Engineer and Surveyor from whom the necessary Tender documents may be obtained on payment of a deposit of three guineas, which will be refunded on receipt of a bona fide Tender, not subsequently withdrawn, and the return of all documents.

Tenders in plain sealed envelopes endorsed "Whitehill Housing Site—Stage 1" shall be delivered to the undersigned not later than NOON on WEDNESDAY, 1st JUNE, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. J. HOLDEN,
Clerk of the Council.

Barton End,
Alton,
Hants.
20th April, 1960.

WANDSWORTH
METROPOLITAN BOROUGH.

HOUSING AT TOOTING.

Contractors wishing to TENDER for ERECTION OF A SEVEN-STOREY BLOCK OF 21 FLATS at Southcroft-road should submit names to me by 11th MAY, 1960, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Mr. J. Hewitt Mitchell, A.R.I.B.A., A.I.Arb., 140 Streatham Hill, S.W.2.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

EASTBOURNE
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited for the ERECTION OF A FACTORY with a floor area of 5,000 super feet on the Brampton-road Trading Estate, Eastbourne.

Applications for Tendering documents must be delivered to Messrs. Benz and Williams, Architects, 53 Gildredge-road, Eastbourne, on or before the 2nd day of May, 1960, and must be accompanied by a deposit cheque for £2 2s. 0d. payable to Eastbourne Corporation.

Tendering documents will be issued on the 10th day of May, 1960. No Tender will be considered unless it is sent in a plain sealed envelope, addressed to the undersigned, bearing the words "Tender for factory at Brampton-road," but devoid of any name or mark indicating the sender, and delivered not later than 12 NOON on the 30th day of MAY, 1960.

The lowest or any Tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
19th April, 1960.

EPSOM AND EWELL
BOROUGH.

CONSTRUCTION OF BOUNDARY WALLING.

The Corporation invite TENDERS from experienced contractors for the CONSTRUCTION OF BRICK OR FLINT BOUNDARY WALLING at the junction of Wilmerhatch-lane and Headley-road, Epsom.

Copies of the Plan, Conditions of Contract, Specification, Bill of Quantities, Forms and Conditions of Tender may be obtained from the office of Mr. Colin Cobbett, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours upon payment of a deposit of £2 2s. Deposits will be returned to Contractors submitting a bona fide tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on MONDAY, the 16th MAY, 1960, and no tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Walling — Wilmerhatch-lane." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom,
Surrey.

GREAT YARMOUTH
COUNTY BOROUGH.

FIXED PRICE TENDERS are invited for the ERECTION of the following:—

(a) PUBLIC CONVENIENCES at Deneside, Great Yarmouth.

(b) 25 AGED PERSONS' BUNGALOWS at Caister-road, Great Yarmouth.

Forms of Tender and Bills of Quantities are obtainable from Borough Engineer's Office on or after 29th APRIL, 1960, where drawings and conditions of contract may be inspected. A deposit of £2 2s. for each contract, returnable upon receipt of a bona fide Tender or Tenders, not subsequently withdrawn, is required with applications for tendering particulars. Tenders, in the envelopes provided, must reach me not later than 9 a.m., FRIDAY, 27th MAY, 1960. The Council does not bind itself to accept the lowest or any Tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.
21st April, 1960.

READING
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the CONSTRUCTION OF A SMALL SWIMMING POOL at Geoffrey Field Primary School. General Conditions may be inspected, and Specification and drawing may be obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by NOON, 31st MAY, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

NORFOLK
EDUCATION COMMITTEE.

1. Buxton County Primary School—EXTENSIONS AND ADAPTATIONS.
2. Hellesdon Secondary Modern School—SECOND INSTALMENT OF NEW SCHOOL (23,000 ft. sup.).
3. Sprowston Secondary Modern School—SECOND INSTALMENT OF NEW SCHOOL (50,000 ft. sup.).
4. Thorne Grammar School—EXTENSIONS (39,000 ft. sup.).
5. Swanton Morley Voluntary Controlled School—ONE CLASSROOM.

Building Contractors desirous of being considered for inclusion in panels of tenderers for items 1 to 4 or for tendering for item 5 should submit their names to the undersigned by WEDNESDAY, 11th MAY, 1960. Bills of Quantities will be available for items 1 and 3 in mid-July and items 2 and 4 in early June, and specifications for item 5 in early June.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Offices,
Stracey-road,
Norwich.

EASTBOURNE
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

EASTBOURNE TRAINING COLLEGE.

TENDERS are invited for the ERECTION OF A NEW LABORATORY BLOCK TWO STOREYS IN HEIGHT and of brick construction with R.C. floor and roof slabs.

Applications for Tender forms, specifications and drawings must be delivered to the Borough Surveyor, 2-4 Saffrons-road, Eastbourne, on or before 9th May, 1960, and must be accompanied by a deposit cheque for £2 2s. 0d. payable to Eastbourne Corporation.

The Tendering documents will be issued on 19th May, 1960, and no Tender will be considered unless sent in a plain sealed envelope addressed to the undersigned, bearing the words "Tender for Laboratory Block" but devoid of any name or mark indicating the sender, and delivered not later than 12 NOON on 9th JUNE, 1960.

The lowest or any Tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
21st April, 1960.

PLYMOUTH CITY

TENDERS are invited from Building Contractors for:

The ERECTION OF A POST OFFICE and SAVINGS BANK at Granby-way, Devonport.

Applications, accompanied by a deposit of Three Guineas made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 7th MAY, 1960, will be considered.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

OXFORD CITY

PROPOSED HOUSING WORK.

The Council intends to undertake the following building work, all in two-storey traditional brick construction:—

1. A BLOCK OF EIGHT SMALL FLATS at Blackbird Leys Estate.
2. FOUR PAIRS OF FIVE- AND TWO-BEDROOMED HOUSES at Blackbird Leys Estate.
3. A PAIR OF POLICE HOUSES at First Turn, Wolvercote.
4. A PAIR OF POLICE HOUSES at Blackbird Leys Estate.
5. TWO PAIRS OF POLICE HOUSES WITH GARAGE AND POLICE BOX at Horspath-road.

Bills of Quantities will be available during May and June and Tenders will be on a fixed price basis.

Contractors wishing to Tender for any of this work should submit their names to the City Architect and Planning Officer, Town Hall, Oxford, not later than 6th May, stating which contracts they are interested in.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

SOUTHEND-ON-SEA.
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

FOUNDATIONS AND ERECTION OF PREFABRICATED CLASSROOMS AT SOUTHCHURCH HIGH SCHOOL FOR BOYS, Ambleside-drive, Southend-on-Sea.

TENDERS are invited for the performance of works in connection with the proposed CONSTRUCTION OF FOUNDATIONS AND ERECTION OF PREFABRICATED MOVABLE CLASSROOMS AND WORKS INCIDENTAL THERETO at Southchurch High School for Boys, Southend-on-Sea.

R.I.B.A. Conditions of Contract may be inspected, and copies of Form of Tender, Specification and Drawings obtained on and after Tuesday, 3rd May, 1960, on application to the Borough Architect, 30 Alexandra-street, Southend-on-Sea.

Sealed Tenders addressed to the undersigned and endorsed "Foundations and Erection of Prefabricated Classrooms—Southchurch High School for Boys" are to be delivered to this Office before 3 p.m. on MONDAY, 23rd MAY, 1960, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

NORTH-WEST METROPOLITAN
REGIONAL HOSPITAL BOARD.

PROPOSED DEVELOPMENTS AT THE LUTON AND DUNSTABLE HOSPITAL, Dunstable-road, Luton, Beds.

Building Contractors wishing to TENDER for the above work are invited to submit their names for inclusion on a selected list of Tenderers. The work will consist of a single-storey Casualty Department and Twin Theatres, a five-storey Block containing Wards and X-ray Department and two link Blocks of six- and two-storeys respectively joining the five-storey Block to the existing building.

The estimated cost of the project is approximately £500,000.

It is anticipated that invitations to Tender will be issued in June, 1960, and that the work will commence in August, 1960.

Applications together with details of works carried out and their value, should reach the Regional Architect, North-West Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, London, W.2, not later than MONDAY, 30th MAY, 1960.

MERTON AND MORDEN
URBAN DISTRICT.

MORDEN ASSEMBLY HALL, TUDOR-DRIVE, MORDEN.

A panel is being prepared of Contractors who will subsequently be provided with Bills of Quantities for tendering for the ERECTION OF THE ABOVE-MENTIONED HALL.

Builders wishing to be considered for inclusion on this panel should write to the Engineer and Surveyor, Morden Hall, S.W.19, not later than 13th MAY, 1960, giving particulars of recent contracts completed and the names of two or more technical referees.

SYDNEY ASTIN,
Clerk of the Council.

Morden Hall,
S.W.19.

GATESHEAD
COUNTY BOROUGH.

GATESHEAD TECHNICAL COLLEGE STAGE III.

Contractors wishing to TENDER for the ERECTION OF THE EXTENSIONS TO THE ABOVE COLLEGE are invited to submit their names, details of work recently carried out, and a deposit cheque for Five Pounds (payable to the Borough Treasurer), which will be returnable on receipt of a bona fide Tender, or the return of the Tender documents.

Bills of Quantities will be ready in May, and a Tendering period of four weeks will be allowed.

Applications, details and deposits should be forwarded to the Borough Surveyor, Swinburne-street, Gateshead, within SEVEN DAYS of this advertisement.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.

BRENTFORD & CHISWICK
BOROUGH.

GROVE PARK FARMHOUSE.

TENDERS to be submitted not later than 12 NOON on TUESDAY, 7th JUNE, 1960, are invited for the CONVERSION OF THE FIRST FLOOR OF GROVE PARK FARMHOUSE, Chiswick, into TWO SELF-CONTAINED FLATS.

Form of Tender, drawings, and specification can be obtained from the Borough Surveyor, Town Hall, Chiswick, W.4.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
W.4.

GILLINGHAM
BOROUGH.

REDEVELOPMENT AREA, CHURCH-STREET, STAGE III.
44 DWELLINGS AND 16 GARAGES.

Fixed price TENDERS are invited for the ERECTION OF 44 DWELLINGS comprising 18 HOUSES, TWO BLOCKS OF SIX FLATS, 14 BUNGALOWS AND 16 GARAGES at Church-street, Gillingham, Kent.

Persons desirous of Tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender and may inspect the drawings and conditions of contract at the Borough Engineer's Department during usual office hours on and after 2nd May, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s. 0d.) made payable to Gillingham Corporation. The sum will be refunded on the receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed "Tenders for 44 dwellings and 16 garages" must be delivered to the undersigned by not later than NOON on FRIDAY, 20th MAY, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
21st April, 1960.

Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models *Illustrated literature and prices on request*

BLAW KNOX LIMITED Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579

FOR 'HILLTOP'. . . 'the most imaginative experiment in licensed trade history'

the architects used NAIRN Vinyl tiles

The cafeteria at 'Hilltop', combined public house and community-centre at Hatfield New Town, Herts. The architects were Brett, Boyd and Bosanquet; the floorcovering which they specified was Nairn Vinyl tiles. Interior designer: HULME CHADWICK. Flooring contractors: S. H. WARE & CO. LTD.

MODERN ARCHITECTS, MODERN FLOORING

"The most imaginative experiment in licensed trade history." This was how the *Morning Advertiser* described 'Hilltop'. This modern project is another example of the fine use which up-to-date architects have made of Nairn Vinyl tiles.

What is 'Hilltop'?

A gift from two breweries (Guinness and McMullen's) to Hatfield, 'Hilltop' is an experiment in licensed house design. It combines, under one roof, a public house, an assembly hall-cum-theatre, a health clinic, two committee rooms, an unlicensed café with its kitchen, and the manager's private flat. A paved terrace runs around the licensed house.

How Nairn's twin range of tiles offers inexpensive colour schemes

Nairn make two ranges of 3.2 mm tile for commercial use: the contractors' basic A range, and the architectural design B range. The five colours in the range are those in greatest demand by architects, and Nairn make these tiles specially for contractors who want to lay floors at highly competitive cost. Moreover, by including a few tiles from the lighter, more expensive B range, you can create an attractive, imaginative scheme—still at low cost.

Twelve-inch square tiles

Besides the standard 9" x 9" size in 2.0 and 3.2 mm gauge, you can get Nairn tiles in all colours of the 3.2 mm range in a 12" x 12" size. This is the most economic size for laying and is particularly suited to the scale of larger installations.

NAIRN Technical Advisory Service

Technical representatives at Nairn area offices are ready and willing to give you advice and information on anything and everything about floorcovering services. Just contact your nearest office:

MICHAEL NAIRN & CO LTD
P.O. Box 1, Kirkcaldy, Scotland. Kirkcaldy 2011 (10 lines).
LONDON EC1: *131 Aldersgate Street. Monarch 3211 (8 lines).*
BIRMINGHAM 2: *65 Temple Row. Midland 5989 (2 lines).*
BRISTOL 4: *349 Bath Road, Bristol 77840.*
MANCHESTER 1: *4 Canal Street, Minshull Street. Central 1417 (3 lines).*
GLASGOW C5: *113 Centre Street. South 1011 (3 lines).*
NEWCASTLE-ON-TYNE: *41 Grainger Street. Newcastle 22807.*

Introducing the

Ascot De Luxe G512

the new water heater giving complete control

The New Ascot De Luxe type G512 represents the latest developments in water heater design and performance. Developed by Ascot for use as an instantaneous multipoint and single-point water heater, this Ascot De Luxe with its *complete* controls for gas and water is sure to be popular with the modern housewife. Here are some of its features:

Temperature Selector
A temperature selector controlling a temperature rise between 45°-100°F is incorporated, allowing the housewife to choose water at whatever heat she wants.

Gas and Water Controls
The Ascot De Luxe is fitted with a constant volume gas governor and a water governor. External controls include hot and cold taps and a rotary gas control. Gas and water cocks are an integral part of the heater linings.

Ease of Fixing and Maintenance
The De Luxe ensures easy fixing and maintenance. The outer case and top and bottom pans are quickly detachable, and all working parts are readily accessible. The stainless steel Ascot 'flat flame' burner needs little attention.

Versatility
The De Luxe is designed to operate as either a single point heater with a 9" spout, or as a small multipoint heater.

Performance
The De Luxe is 23¼" high, 10¼" wide and 8 5/16" deep and gives 30,000 B.t.u./hr. thermal output from an input of 40,000 B.t.u./hr. producing 0.5 g.p.m. raised 100°F, 0.625 g.p.m. raised 80°F, and pro rata. Pilot consumption is 250 B.t.u./hr.

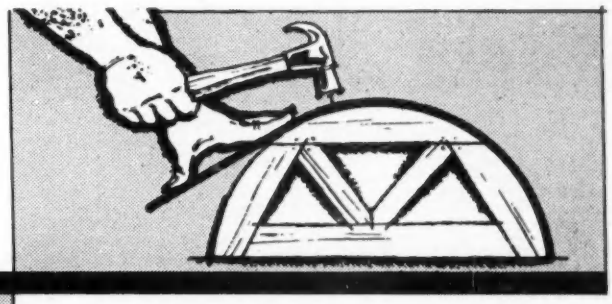
For full details of the Ascot De Luxe type G512 write to
ASCOT GAS WATER HEATERS LIMITED, 255 NORTH CIRCULAR ROAD, NEASDEN, N.W.10

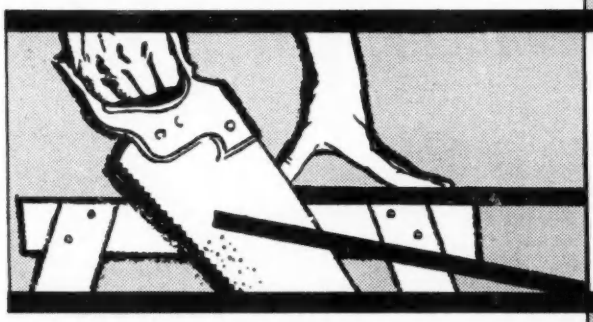
REGD. TRADE MARK
ASCOT

A Radiation Company

BEND IT

with ease to almost any curve. Even down to a radius of 1½" round a heated former.



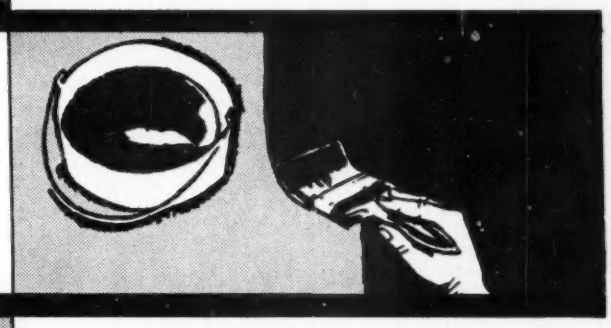


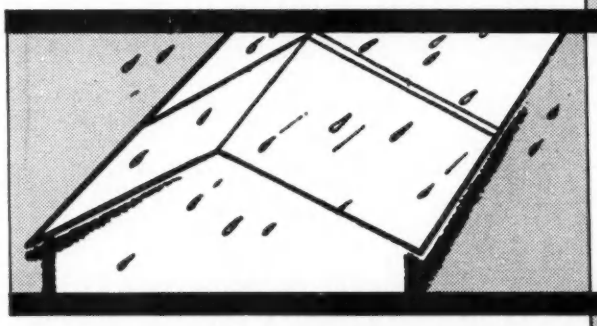
SAW IT

and note the hard, clean edge. It can also be chamfered, carved, rebated, combjointed and dovetailed, etc.

PAINT IT

you'll get a better finish with Timberit and remember — no filling, sealing, or pre-sanding is necessary.



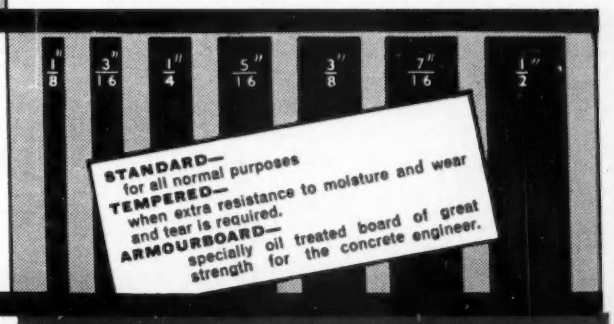


USE IT

externally as well as indoors. Timberit has remarkable weather resisting properties.

and GET IT

in 7 thicknesses up to half-inch!



Timberit is the most versatile hardboard. It has so many advantages. It is available in various thicknesses. It is made of wood, yet its uniform density eliminates warping, splitting, shrinking or swelling.

SPECIFY TIMBERIT

—THE WORLD'S BEST

Write for samples and names of your local stockists to:

Sole U.K. Agents: THOMAS SIMSON & CO. LTD · 6 GREAT WINCHESTER STREET · LONDON · E.C.2

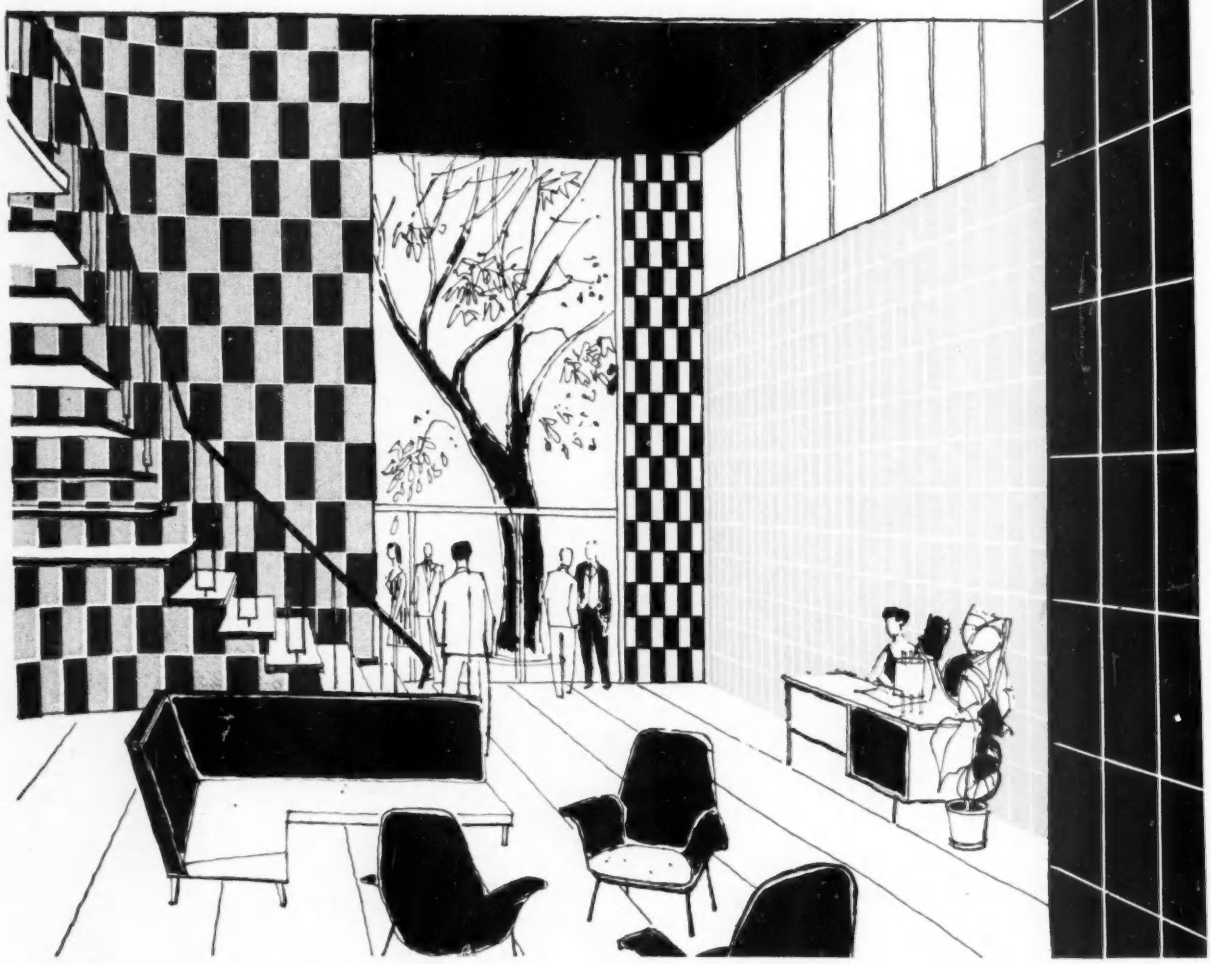
TIMBERIT hardboard

MARLEYMURA

M

12″ x 6″ vinyl wall tiles

bringing a new proportion
to stimulate a fresh approach
to permanent decoration . . .



Marleymura . . . wall tiles of vinyl . . . attractive, distinctive, pleasantly colourful, clean—and **tough.**

In new buildings and the reconstruction of old, Marleymura ends the monotony of large wall surfaces. Resistant to grease and acid; condensation reducing; easy to fix to any wall without any special surface: easy to clean, easy to maintain in beautiful condition. Simple washing keeps them bright and new and a lustrous sheen can be given to them with Marley Superwax.

MARLEYMURA tile sizes

The actual dimension of each tile is 12″ × 5 1/16″ which permits any design to be used while still maintaining an equal 1/8″ framed spacing between tiles.

MARLEY · SEVENOAKS · KENT · *Sevenoaks 55255*

LONDON SHOWROOMS: 251 TOTTENHAM COURT ROAD, W.1.

PORTSMOUTH CITY

TENDERS, based on Bills of Quantities, are invited for :—

(a) 18 THREE-STOREY HOUSES AND SIX GARAGES, Prince George-street.

(b) 17 FLATS AND MAISONETTES, St. Paul's Church Site.

(c) SIX FLATS, Alhambra-road.

(d) 12 BUNGALOWS AND SIX FLATS, site adjoining Flint House.

Contractors desirous of Tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than the 9th MAY, 1960, stating in which Contract(s) they are interested and enclosing a deposit of £1 for each Contract returnable on receipt of bona fide Tender(s) or the return of all the documents within three days.

The Council do not bind themselves to accept the lowest or any Tender. It is a condition of Tendering that the Contractor shall at the date of his Tender have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

KINGSTON-UPON-THAMES
ROYAL BOROUGH.

ERECTION OF A STEEL FRAMED 2-STOREY SPORTS PAVILION, OF 3,300 SQ. FT., AT NORBITON SPORTS GROUND.

The Corporation invite contractors wishing to TENDER for the above contract to make application on or before 9th MAY, 1960. Contractors selected to tender will be required to deposit £2 2s. prior to the forwarding of tender documents, returnable on receipt of a bona fide tender. The contract will be on a fixed price basis.

The Corporation do not bind themselves to accept the lowest or any tender.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
19th April, 1960.

CAERNARVONSHIRE
EDUCATION COMMITTEE.

ERECTION OF A NEW RESIDENTIAL SCHOOL FOR PHYSICALLY HANDICAPPED CHILDREN AT LLANDUDNO.

Building Contractors wishing to TENDER are requested to send their names to the Director of Education, Education Offices, Caernarvon, not later than FRIDAY, 13th MAY, 1960, accompanied by deposit cheque of £2 2s. 0d., payable to the County Treasurer, returnable on receipt of a bona fide Tender.

It is anticipated that Bills of Quantities will be available about the middle of May, 1960.

CARSHALTON
URBAN DISTRICT COUNCIL.

propose ERECTING A PUBLIC CONVENIENCE of simple construction 10 ft. 6 in. x 20 ft. 6 in. in Royston Park. Contractors wishing to TENDER for the erection of the same are invited to submit their names to the undersigned not later than 12th MAY, 1960. From the names submitted a limited number will be selected to Tender.

C. H. DURRANT,
Clerk of the Council.

Council Offices,
The Grove,
Carshalton.

BRISTOL CITY
AND COUNTY.

TO BUILDING CONTRACTORS.

Education Committee invite Fixed Price TENDERS for Redland Training College, Bristol, comprising the ERECTION OF FOUR-STOREY BLOCK INCLUDING DEMOLITION OF EXISTING BUILDINGS AND MINOR ADAPTATIONS. New floor area 56,000 square feet, mainly reinforced concrete frame structure.

Contractors experienced in work of this type and size apply to City Architect, Council House, Bristol, 1, by 6th MAY.

CHESHUNT
URBAN DISTRICT COUNCIL.

ERECTION OF SHOPS, ETC., COLLEGE ROAD AND TURNERS HILL, CHESHUNT.

Contractors are invited to submit their names for permission to TENDER for the above-mentioned building work.

The contract comprises:

THREE-STOREY BUILDING CONSISTING OF 8 SHOPS (SHELL ONLY), 10 MAISONETTES AND 27 GARAGES.

The Architect is Mr. Clifford Culpin, O.B.E., F.R.I.B.A., M.T.P.I., and the Quantity Surveyors are Messrs. Dearle and Henderson.

Contractors should indicate in their application details of similar work recently executed by them and give names and addresses of architects, etc., to whom reference may be made. Applications should reach the undersigned not later than 7th MAY, 1960.

G. S. NEWNHAM,
Clerk of the Council.

Manor House,
Turners Hill,
Waltham Cross,
Herts.

GRANTHAM
BOROUGH.

TENDERS FOR HOUSES.

FIXED-PRICE TENDERS are invited for the ERECTION OF 43 HOUSES. Plans may be inspected and bills of quantities obtained, on deposit of £2 2s., from Borough Surveyor's Office. Tenders to be submitted, in plain sealed envelopes endorsed "Tender for 43 Houses," to me by MONDAY, 23rd MAY.

JOHN F. GUILE,
Town Clerk.

Guildhall,
Grantham.

NORWICH CITY

TO BUILDERS AND CONTRACTORS.

TENDERS are invited for the ERECTION OF A CENTRAL LIBRARY in Bethel-street, Norwich. The construction consists of reinforced concrete basement and frame with precast concrete floor panels and involves the post-tensioning of large units.

Bills of Quantities, Forms of Tender, etc., may be obtained from, and the Stipulations of Contract inspected at the City Architect's Office.

Tenders on the forms supplied, enclosed in a sealed envelope, endorsed "Tender for Library," and addressed to the Chairman of the Libraries Committee must be sent to the City Architect, City Hall, Norwich, NOR 01A, by 5 p.m., on FRIDAY, 8th JULY, 1960.

THE CORPORATION DOES NOT BIND ITSELF TO ACCEPT THE LOWEST OR ANY TENDER.

DAGENHAM
BOROUGH

CANVEY ISLAND.
CONTRACT NO. 4.
190 DWELLINGS.

TENDERS are invited for the following:

(a) SUPPLYING AND LAYING 10,696 YDS. SUPER (APPROX.) THERMOPLASTIC FLOOR TILES;
(b) SANITARY FITTINGS, ETC.;
(c) TILED FIREPLACE SURROUNDS.

Specifications and forms of tender may be obtained from the Borough Engineer and Surveyor.

Tenders, in the official envelopes provided, must be delivered to the undersigned by 21st MAY, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

TWICKENHAM
BOROUGH

TENDERS are invited for RE-TILING ROOFS OF TWO PAIRS OF COTTAGES at Hampton. Specification and Form of Tender may be obtained upon application to the Borough Engineers' Property Section, Room 53. Tenders in the envelope provided and not bearing any name or mark indicating the sender are to be delivered to the undersigned on, or before, 10 a.m. on MONDAY, 16th MAY, 1960. The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,
Town Clerk.

Municipal Offices,
Twickenham.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

BUCKINGHAMSHIRE
COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYORS in the County Architect's Department on A.P.T. Grade IV, £1,065-£1,220 per annum.

The appointment is superannuable and subject to medical examination, and applicants should be suitably qualified.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 16th MAY, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.

COLLEGE OF ADVANCED TECHNOLOGY, BIRMINGHAM

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

Applications are invited for the post of

LECTURER in BUILDING
(CONSTRUCTION AND QUANTITIES)

The successful candidate will assist in the teaching of general building subjects with particular reference to Quantity Surveying. Candidates must offer sound experience of modern constructional techniques and the practice of quantity surveying as applied to contracting in the building industry. They should hold an appropriate professional or graduate qualification.

Salary Scales: Lecturers (Men) £1370-£1550

Further particulars and forms of application from the Bursar, College of Advanced Technology, Gosta Green, Birmingham, 4. Applications to be received within 14 days of this advertisement. Please quote 'R'.

K. R. PILLING, Clerk to the Governors.

WIDNES
BOROUGH.

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of TEMPORARY CLERK OF WORKS for the erection of a Secondary Grammar School at Widnes and for extensions to two existing schools. It is expected that the minimum period of employment will be two years. Salary within Grade A.P.T. II (£765-£880 p.a.).

Candidates should have a thorough knowledge of building construction and materials, the installation of mechanical heating and electrical services for large buildings and have a wide general experience of the Building Trade.

Applications, stating age, experience, qualifications, present salary and names and addresses of two referees, to be sent to the Borough Architect, Brendan House, Widnes, to be received not later than 13th MAY, 1960.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
19th April, 1960.

EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointment :—

SENIOR ASSISTANT ARCHITECT,
Grade IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than 3 years.

Further details and application forms returnable by 13th MAY, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

LIVERPOOL
UNIVERSITY.

CLERK OF WORKS.

A vacancy exists for a CLERK OF WORKS, to be employed on the erection of a new £200,000 building, for a period of two years. There is a possibility of continuity of employment on further new buildings. A salary up to £1,250 per annum will be paid to the successful applicant.

Applicants with suitable experience and preferably members of the Institute of Clerks of Works should apply in writing, and quoting reference CV/B, stating age, experience and salary required, to the Registrar, The University, Liverpool, 3.

LANCASHIRE
COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, for a large and varied programme.

Permanent posts in A.P.T. Grade V (£1,220-£1,375). Starting point according to experience. Previous applicants should not re-apply.

Application Forms and Conditions of Service from the County Architect, P.O. Box 26, County Hall, Preston, to be returned by 10th MAY, 1960, quoting reference A/B.

LONDON
COUNTY COUNCIL.

Applications invited from part-time TEACHERS OF BRICKWORK AND PLASTERING required in SEPTEMBER for posts at Brooke House Secondary School, Kenninghall-road, E.5. (New school for 900 boys 11-17; varied courses to G.C.E. "O" level and beyond). Applicants should be able to supervise courses leading to craft apprenticeships. Successful candidates would be appointed to Council's temporary staff. Apply headmaster at school as soon as possible. (1002.)

LEIGH
BOROUGH.

APPOINTMENT OF DEPUTY HOUSING DIRECTOR.

Applications are invited from persons possessing the necessary qualifications and experience for the above appointment at a salary in accordance with Grade IV of the National Salary Scales £1,065 per annum rising to £1,220 per annum).

Applicants must be competent to undertake all aspects of the administration of the Housing Department. Duties will include the preparation of bills of quantities and estimates, purchase of materials, erection and maintenance of all Corporation property (by direct labour) and housing and estate management.

The appointment, which is superannuable, is subject to the National Scheme of Conditions, medical examination and one month's notice on either side.

Housing accommodation is available if required.

Essential user car allowance.

Applications, stating age, qualifications and experience accompanied by the names of two referees to be received by the undersigned not later than MONDAY, 16th MAY, 1960.

ALBERT JONES,
Town Clerk.

Town Hall,
Leigh,
Lancs.

HARROW
BOROUGH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:

CHIEF TECHNICAL ASSISTANT (MAINTENANCE), A.P.T. Grade IV (£1,065 to £1,220 per annum, plus London "weighting").

Applicants should be suitably qualified and experienced to organise both routine and long-term maintenance improvements and service installation works on approximately 5,000 dwellings, together with all municipal properties (except Schools).

The person appointed will be responsible for works carried out by direct labour (under a Works Superintendent) and by Contract.

Candidates who have previously applied for this post need not re-apply, as their original application will again be considered.

SENIOR BUILDING INSPECTOR, A.P.T. Grade III (£880 to £1,065 per annum, plus London "weighting").

Applicants should be suitably qualified—A.R.I.C.S. (Building Sub-Division) or be in possession of the Building Inspectors' Certificate of the Institute of Municipal and County Engineers.

TECHNICAL ASSISTANT (BUILDING BY-LAWS), A.P.T. Grade II (£765 to £880 per annum, plus London "weighting").

Applicants should be qualified Building Inspectors.

The duties will be mainly in the office advising callers regarding the Council's Building By-laws and other matters normally dealt with in a Building Inspector's section.

QUANTITY SURVEYING ASSISTANT, A.P.T. Grade I (£610 to £765 per annum, plus London "weighting").

In each case the commencing point within the salary scale will be in accordance with qualifications and experience.

Housing accommodation cannot be provided but contributions towards removal expenses will be considered.

The appointments will be subject to the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service.

Application forms, obtainable from me, should be returned by MONDAY, 9th MAY, 1960.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middx.

WAR DEPARTMENT

ARCHITECTS

A number of pensionable posts are offered to Registered Architects (men) in the War Department's Works Directorate, a newly created, expanding organisation concerned with the layout and design of a wide variety of buildings for military occupation both at home and overseas, together with research and development work into building problems.

Applicants must be at least 25 and under 35 on 1.1.60, but the upper age limit is extended for regular Forces service and Overseas Civil Service.

Starting salary is according to age, and ranges in London from £830 to £1,125. The London scale maximum is £1,300, and there are good prospects of promotion.

Further particulars and application forms may be obtained from Civil Service Commission 17 North Audley Street, London, W.1. You should quote S/60-61/8.

ROCHESTER CITY.

ARCHITECTURAL ASSISTANT

(Grade A.P.T. II (£765-£880)).

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the City Surveyor's Department at a salary in accordance with Grade A.P.T. II (£765-£880).

Candidates should have general experience, including the preparation of drawings and specifications for Municipal Housing Schemes, and should have passed the Intermediate Examination of the Royal Institute of British Architects or hold a qualification of equivalent standard. The commencing salary will be according to qualifications and experience.

In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation and will be prepared to refund removal expenses after twelve months' service.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and a satisfactory medical examination. One month's notice is required on either side.

Applications, stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two persons to whom reference may be made, should be delivered to J. A. Peel, A.M.I.C.E., A.M.I.Mun.E., City Surveyor, 66 Maidstone-road, Rochester, not later than WEDNESDAY, 18th MAY, 1960.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester
14th April, 1960.

EPPING AND ONGAR
R.D.C.

BUILDING INSPECTOR.

Applications are invited for the established post of BUILDING INSPECTOR on Grade A.P.T. II. Applicants should possess the Building Inspector's Certificate and have a thorough knowledge of building construction, Building Byelaws, Planning Regulations and procedure, Housing Improvement Grants and in particular a thorough experience in carrying out inspection of buildings in progress. The successful applicant will be expected to provide a car for which an allowance will be paid in accordance with the National Scale for cars up to 1,199 c.c. Housing accommodation provided and removal expenses paid.

Applications, stating age, qualifications and experience, and the names of two referees, to be made to the Engineer and Surveyor, Raymond L. Luck, Registered Architect, A.R.I.C.S., A.M.T.P.I., M.I.Mun.E., M.R.S.H., 209 High-street, Epping, Essex, by 7th MAY, 1960.

SALFORD
ROYAL TECHNICAL COLLEGE.

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING.

Applications are invited for the following post:—

LECTURER IN QUANTITY SURVEYING. Salary range: £1,370 rising to £1,550 p.a.

Corporate Membership of the Royal Institution of Chartered Surveyors, together with good professional experience, is essential.

The successful applicant will be required to lecture to students in R.I.C.S. (Quantity Surveying) courses.

Further particulars and form of application may be obtained from the Registrar, Royal Technical College, Salford 5, Lancs, to whom completed forms should be returned by 14th MAY, 1960.

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for:

ASSISTANT ARCHITECTS, Special Scale, £785-£1,070 p.a.

ASSISTANT QUANTITY SURVEYORS, Special Scale, £785-£1,070 p.a.

Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Buildings, Blackpool.

STOKE-ON-TRENT CITY
EDUCATION COMMITTEE.

COLLEGE OF BUILDING.

Principal: G. Knapper, F.R.I.B.A., F.R.S.A., F.R.S.H., Chartered Architect.

DEPARTMENT OF PROFESSIONAL AND MANAGEMENT STUDIES.

Head of Department: A. Sykes, A.R.I.C.S., F.I.Arb., Chartered Surveyor.

Applications are invited for the appointment of a full-time SENIOR LECTURER to teach Building Construction, and additional subjects included in the various professional examinations allied to the Building Industry (applicants should list subjects offered). The successful applicant will act as Deputy Head of Department, and will be responsible for organisation and development in the Department.

Applicants should preferably be members of the Royal Institute of British Architects, School trained, with previous professional and/or teaching experience. Only applicants having had a wide range of practical experience will be considered.

Salary in accordance with the Burnham Scale for Senior Lecturer in Establishments of Further Education, i.e. £1,550 x £50—£1,750 per annum.

Application forms, which should be returned immediately, may be obtained from the Chief Education Officer, Education Department, P.O. Box No. 23, Town Hall, Hanley, Stoke-on-Trent.

H. DIBDEN,
Chief Education Officer.

NORFOLK
EDUCATION COMMITTEE.

Applications are invited for the post of ASSISTANT ARCHITECT. Candidates should have experience in the planning and erection of large buildings.

Salary scale: Special Grade (£785 to £1,070), or A.P.T. III (£880 to £1,065).

Forms of application from the undersigned to be returned within 14 days of the date of this advertisement.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich,
Norfolk.
NOR. 49A.

LEYTON
BOROUGH.

(Municipal Borough in the County of Essex. Population approximately 100,000.)

BOROUGH ENGINEER'S DEPARTMENT.

Applications invited for appointment of ARCHITECTURAL ASSISTANT at salary within the scale of £575 per annum rising to £725 per annum (plus London Weighting) in accordance with the provisions of Grade A.P.T. I of the National Scheme of Conditions of Service for Local Authority Staffs.

HOUSING ACCOMMODATION will be made available to successful applicant if required.

5-day week is operated.

Apply by letter to Borough Engineer, Town Hall, Leyton, E.10 (giving names of two referees) not later than FRIDAY, 13th MAY, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

BIRMINGHAM CITY

Applications are invited for appointments as ASSISTANT ARCHITECTS in the City Architect's Department at commencing salaries, according to experience and capabilities, within the following grades:

(a) A.P.T. IV, £1,065-£1,220 per annum.

(b) Special Scale, £785-£1,070 per annum.

A large new Exhibition Hall with multi-storey car park and other public buildings, forming part of the new Civic Centre plan, are included in a building programme which also comprises Schools, Technical Colleges, Colleges of Further Education, and Schemes of Comprehensive Housing Development, including tall blocks of dwellings, Shopping Centres and ancillary buildings.

A great opportunity exists for enthusiastic and imaginative Architects who wish to assist in work of such architectural importance.

Candidates should have passed Parts I and II of the Final Examination of the R.I.B.A. or hold equivalent qualifications.

Pension Scheme; Five-day Week; Medical Examination.

Applications stating appointment applied for, age, present position and salary, qualifications, experience and two referees to reach the under-signed by 13th MAY, 1960.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham 1.

LONDON
COUNTY COUNCIL.

BUILDING FOREMEN Required by L.C.C. for new building, modernisation and conversion work by direct labour in Greater London area. £655 to £750 according to qualifications and experience plus bonus. Stamp for form. Director of Housing (G/O), County Hall, S.E.1. (1054.)

CRAWLEY

DEVELOPMENT CORPORATION Require ASSISTANT in Estate Department (Maintenance Section). Ordering, pricing and supervision of repairs and general maintenance works carried out by Contractors. Preference will be given to candidates studying for R.I.C.S. (Building) Examination. Salary £465-£765 per annum. Housing may be provided. Contributory Superannuation Scheme. Apply on forms from Chief Estates Officer (vacancy), Broadfield, Crawley, Sussex, by 13th MAY, 1960.

E. E. H. CAGE,
Chief Executive.

BEDFORDSHIRE
COUNTY COUNCIL.

Applications are invited for the following permanent posts.

The County Architect's Department is being reorganised on a group basis to carry out an increased building programme. The programme of works includes a new County Hall, Training Colleges, Further Education and School Buildings, Police and Fire Stations, and other Public Buildings.

(a) PRINCIPAL ARCHITECTS, J.N.C. Scales "D" (£1,520-£1,755), "C" (£1,385-£1,620) and "B" (£1,250-£1,485).

(b) SENIOR ARCHITECTS, A.P.T. V (£1,220-£1,375) and A.P.T. IV (£1,065-£1,220).

(c) ARCHITECTS, Special Scale (£785-£1,070).

Suitable candidates will be appointed to grades and at points within grades in accordance with qualifications and experience.

Application forms obtainable from the County Architect, Shire Hall, Bedford, to be returned by the 9th MAY, 1960.

WEST SUFFOLK
COUNTY COUNCIL.

Applications are invited for a post in the Quantity Surveying Section of the County Architect's Department within Clerical Division Grade I (£595-£670).

N.J.C. Service Conditions; post pensionable; medical examination.

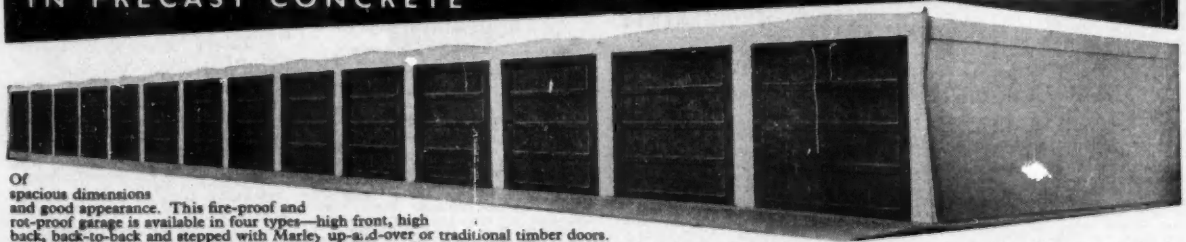
Application forms obtainable from The County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

AIR MINISTRY

Require CLERKS OF WORKS (BUILDING) at R.A.F. and Ministry of Aviation stations for supervision of construction and maintenance work. Candidates must hold O.N.C. (Building), *or* Intermediate C. and G. Certificate in a Craft, *or* Associate Membership of Institute of Clerks of Works *or* equivalent qualification. They must also have served apprenticeship as craftsmen with three years' experience as foremen of trade and have experience as general foremen or clerks of works on big contracts. Three years' full-time or five years' part-time training in a building school or three years' experience in a building office in estimating, costing and management will be accepted in lieu of apprenticeship. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £680 (at age 26) to £850. Commencing salary dependent upon age, qualifications and experience. Applicants, who must be natural born British subjects and not over age 45 years, should write stating age, qualifications and experience to Manager (PE. 1048), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be advised.

MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors. Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.

MARLEY CONCRETE LIMITED Dept. 725, Pennsmarsh, Guildford, Surrey (Head Office) Guildford 69171. Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 626. London Showrooms: 251 Tottenham Court Road, W.1.

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31, Throgmorton Street, London, E.C.2

MONARCH 1257

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YOUR DIAMOND TOOL

PROBLEMS FOR STONE CUTTING

(NATURAL & PRECAST)

CIRCULAR SAWS
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DRILLS
ETC.

LEVELTEX

SCREEDING COMPOUND

Is a means of levelling uneven surfaces, i.e., concrete, granolithic, floorboards, Tiles, Flagstones, Brickpaving, etc., to receive Floor-finishes such as Linoleum, carpets, wood-block, parquet, cork tiling, etc., with a minimum of thickness. It can be laid from $\frac{1}{16}''$ to $\frac{1}{4}''$ thickness and can be trowelled to a "feather-edge." Setting time is approximately 5—7 hours and hardening time 12—14 hours according to atmospheric conditions.

Write for particulars to

TILE FLOORS
(INDUSTRIAL) LTD.,
YEOMAN STREET,
LONDON, S.E.8.

Telephone:
Bermondsey 3237

Factory extension for the Turnbridge Manufacturing & Supply Co. Ltd., London, S.W.17
The architect: Geo. E. Spicer, A.R.I.B.A. Builder: E. W. Sinfield

from Ancient to Modern, lime — tested by time

Used since before the time of the Romans, mortar containing LIME is now being used for laying the new B.R.S. cavity bricks. LIME is not only the best plasticiser of them all, but also gives many other desirable properties to mortar. And LIME has no rivals for plastering and external rendering. Consult the British Standard Codes of Practice or write for a free copy of the well known Grey Book "The Uses of Lime in Building."

THE LIMESTONE FEDERATION
Manfield House, 376-8 Strand, London, W.C.2. Tel: COVent Garden 0621

THE SOUTHERN LIME ASSOCIATION
Hanover House, 73-78 High Holborn, London, W.C.1. Tel: HOLborn 5434

A booklet on LIME/sand mixes gauged with cement and conforming to British Standard Codes of Practice will be sent free on application to either of these addresses.

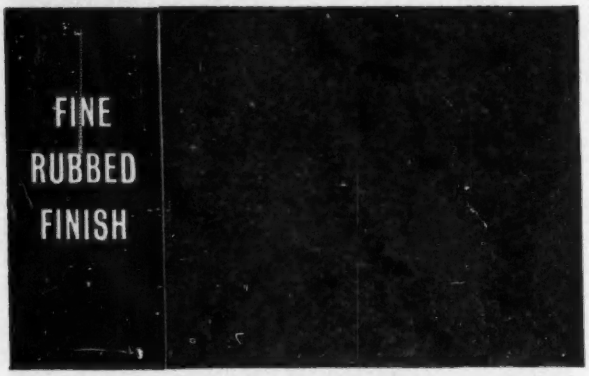
LIME

use **LIME** *tested by time*

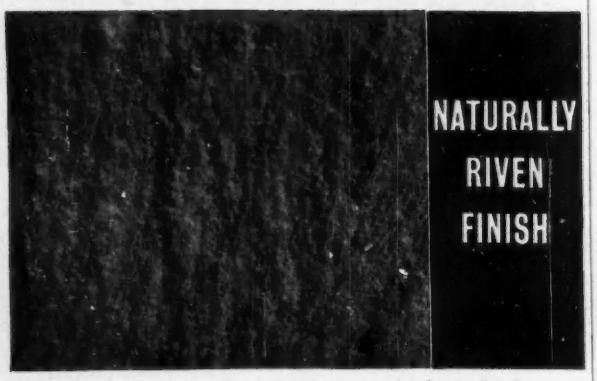
LIME–MANUFACTURED TO COMPLY WITH B.S. 890
This is your safeguard to ensure satisfaction

Lasting beauty

in Broughton Moor



Green Slate



Technical pamphlets showing typical methods of fixing are available on application:

1. Flooring 2. Facings. 3. Coping. 4. Cills 5. Riven Face Slabs.

In three distinct colours Light Sea Green, Olive Green and Pale Green Barred

Broughton Moor

GREEN SLATE QUARRIES LTD.

CONISTON, THE LAKE DISTRICT, LANCS. Tel: CONISTON 225/6

Company Meeting

JOSIAH PARKES & SONS

(Manufacturers of Union Locks and Brassfoundry)

HEALTHY ORDER BOOK POSITION

MR. C. W. PARKES ON PROBLEM OF RISING COSTS

The Ordinary Annual General Meeting of Josiah Parkes & Sons Limited was held on April 25th at Willenhall, Mr. C. W. Parkes, J.P. (chairman and joint managing director), presiding

The following is an extract from his circulated review:

As forecast in my letter to shareholders of 14th October, 1959, the year's trading has yielded a higher profit than was earned in the previous year. Group profit before tax is 14 per cent. higher than in 1958. This again reflects further increases in efficiency, for although turnover shewed a satisfactory increase, wages and material costs rose, whilst average selling prices tended to fall.

Parent Company: The Willenhall factories were working to maximum capacity throughout the year. The increased turnover was well spread over the whole range of trading both home and export, and I am particularly pleased by the strength of export demands, which, in the previous year had caused us some concern. The volume of business increased steadily throughout the year and the rise has continued into 1960. The order position is very healthy, and although some delivery times are longer than we would wish, the situation is well under control and our standard of service to customers is being maintained.

Edwin Showell & Sons Ltd.: Considerable benefits were derived in 1959 from the re-organisation to which I referred in my review last year. A reasonable profit was earned, turnover was increased, and there is every indication that even better results will be shewn in the current year.

South African Company: This subsidiary has again enjoyed a successful year's trading, both turnover and profits being well maintained.

Buildings and Plant

Additions to buildings during the year mainly cover further payment in connection with the extensions to the Portobello factory. A major portion of this extension was completed late in 1959 and is now being brought into use, and the remainder should be available by mid-year. This will provide us with much needed floor space to meet the demands for increased output. Expenditure on new plant is again just about equal to the amount provided for depreciation and represents normal replacement and modernisation. As always, both plant and buildings have been maintained at a high standard of efficiency.

Accounts

The group trading profit in 1959 of £336,447 is higher by £41,440 than the previous year's earnings of £295,007.

The net available profit is £35,134 higher than that of 1958, and there is £4,290 brought into credit in respect of over provisions for taxation in the previous year.

The Consolidated Balance Sheet indicates a further strengthening of the position with a surplus of liquid assets of £828,204 compared with £757,521 a year earlier. Changes in individual items are all in similar proportions and need no special comment. The total of Capital and Reserves invested in the business increased during the year by £122,084 to a total of £1,423,248 at 31st December, 1959.

Last year a special interim dividend of 3½ per cent. less tax was declared and paid with the final dividend for 1958, in view of the holding down of the actual distribution for 1958 to the same level as the previous year.

Disregarding this special dividend therefore, the proposed final dividend for 1959 of 14 per cent. will make, with the interim dividend of 6 per cent. already paid, a total distribution of 20 per cent. less tax for the year, compared with the equivalent of 15 per cent. in the previous year.

A transfer of £75,000 to General Reserve is recommended in the parent company's accounts, and a transfer of £50,000 to General Reserve out of retained profits has been made by the South African Company. These transfers raise the total General Reserve on the Consolidated Balance Sheet to £575,000.

Proposed Capitalisation

With this report you will receive notice of an Extraordinary Meeting to consider the Board's proposals to capitalise part of the available reserves and make an issue of 1 new share for each 2 existing shares. This adjustment on capital account will have the effect of bringing the issued share capital more into line with the capital employed in the business and is merely a recognition that a part of the retentions of past profits should now be regarded as a permanent investment.

In proposing this increase in issued capital your Board desire to emphasise that it should not be taken as implying an intention to increase the total dividend distribution. Our policy in this direction must be dictated by the trend of profits and the needs of the business.

Prospects for 1960

Whilst we have started the year with very full order books and with the rate of intake still rising, I must sound a warning note. Costs of all kinds are rising steadily and profit margins are contracting despite increased output. Some rise in selling prices seems inevitable, but we have to trade in a competitive market, especially overseas, and it is certain that if our prices increase at a greater rate than our foreign and commonwealth competitors there will be grave danger of losing business to them.

For these reasons I would not in present circumstances, care to predict a continuation of the rising trend in earnings we have enjoyed in the last few years. We shall of course, use all our endeavours to offset rising costs by improvements in efficiency on all sides of the organisation, but beyond this we seem likely to be influenced by many factors outside our own control.

The report was adopted and at a subsequent extraordinary general meeting the proposed scrip issue was approved.

ADMIRALTY

—NAVY WORKS DEPARTMENT.
ARCHITECTURAL AND CIVIL ENGINEERING ASSISTANTS.

Vacancies exist in Navy Works Department Drawing Offices for ARCHITECTURAL and CIVIL ENGINEERING ASSISTANTS as shown. Posts are non-pensionable. Opportunities for transfer to Established Staff will occur.

ENGINEERING ASSISTANTS

Vacancies exist at Pinner (Middlesex), Portsmouth, Devonport, Liverpool, Chatham, Rosyth, Greenock, Macrihanish and Glen Douglas, and occur at Establishments elsewhere in the United Kingdom from time to time.

Applicants must be competent Draughtsmen and experienced designers in one or more of the following types of civil engineering works: structural steelwork; reinforced concrete; dock and harbour works; airfield construction; oil fuel schemes; roads, rail services and water supplies. O.N.C. or equivalent qualification. For the posts at Macrihanish and Glen Douglas preference will be given to candidates with surveying and setting out experience.

ARCHITECTURAL ASSISTANTS

Vacancies exist at Pinner (Middlesex), and Portsmouth. Applicants must be competent Draughtsmen and will be required for work with Professional Architects on the preparation of designs for a wide range of new works, including new housing designs and estate layouts; all forms of accommodation; specialised technical buildings and industrial buildings in H.M. Dockyards. Preference given to candidates studying for professional qualifications.

Salary: (National Rate—subject to slight variation dependent on location): starting from £550 p.a. (at age 21) to £760 p.a. (28 and over); maximum of scale—£875 p.a. Opportunities occur for promotion to Leading grade—salary maximum £1,025 p.a. National Rate.

Five-day week; annual leave 18 days rising to 22 after 10 years.

Consideration will be given to successful candidates being granted assistance to obtain professional or technical qualifications.

Candidates, who must be British subjects, are invited to apply, in writing (giving details of experience) to Director General, Navy Works, Admiralty, Chamberlain Way, Pinner, Middlesex.

Interview will be arranged locally.

WAKEFIELD CITY

CITY ENGINEER'S DEPARTMENT.
PRINCIPAL ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065 x £55 x £50(2) —£1,220.)

Applications are invited for the above superannuable APPOINTMENT in the City Engineer's Department.

Applicants must be A.R.I.B.A. and preference will be given to those having municipal experience or experience in the design of educational projects.

The Authority has a full and interesting building programme and this appointment offers a good opportunity to qualified architects seeking to widen their experience in design and construction.

Housing accommodation will be provided if necessary.

Applications stating age, qualifications and experience, together with the names of two referees to be sent to the City Engineer, Town Hall, Wakefield by the 13th MAY, 1960.

YORK CITY.

Applications are invited for the following permanent appointments:—

(a) ARCHITECTURAL ASSISTANT (A.P.T. Grade I, £610-£765 p.a.).

(b) ASSISTANT CLERK OF WORKS (Maintenance Section) (A.P.T. II, £765-£880).

The commencing salary in each case will be in accordance with experience and qualifications.

Applicants for post (a) should have passed the R.I.B.A. Intermediate Examination or equivalent and applicants for post (b) should be members of the Institute of Clerks of Works or its equivalent.

Details of appointments and application forms may be obtained from the undersigned to whom completed forms must be returned not later than FIRST POST on 14th MAY, 1960.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8 St. Leonard's-place,
York
April, 1960.

BATH
HOSPITAL MANAGEMENT COMMITTEE.

Applications are invited for the appointment of BUILDING SUPERVISOR (new post) to take up duties on the 1st JULY, 1960. Candidates must have served a full apprenticeship followed by experience as a craftsman and also have held a post as a General Foreman.

Preference will be given to holders of the Ordinary National Certificate or other comparable qualifications.

The duties include planning and supervising the building maintenance work of the Group, preparation of Specifications and responsibility for a works staff of 43.

Salary £935 x £35(4) to £1,075 per annum.

Applications with full particulars of experience and qualifications to the Group Secretary, Manor Hospital, Coombe Park, Bath, by 18th MAY, 1960.

BEXLEY
BOROUGH.

ASSISTANT ARCHITECT.

Applications are invited for this appointment at a salary within Grade A.P.T. III (£880 to £1,065 per annum) plus London Weighting.

Candidates should have had experience in school and housing projects.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 16th MAY, 1960. The Council may be prepared to assist in the provision of housing accommodation.

Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

SOUTHALL
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on the Permanent Staff of the Corporation.

Salary in accordance with the A.P.T. Grade II (£765-£880), plus London Weighting.

Candidates should have passed the Intermediate examination of the Royal Institute of British Architects or an equivalent and have had practical experience of design and construction.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, Town Hall, Southall, must be returned to him on or before THURSDAY, 12th MAY, 1960.

J. S. SYRETT,
Town Clerk.

BRISTOL CITY
AND COUNTY.

HOUSING DEPARTMENT.

Applications invited for post of TECHNICAL ASSISTANT. Salary: Special N.J.C. Scale—£785-£1,070 p.a.

Applicants must have passed Final examination of Royal Institute of Chartered Surveyors (Building) or hold a similar qualification and be experienced in preparation of plans, specifications and estimates, particularly in connection with adaptation and improvement of existing buildings. Knowledge of procedure in relation to improvement grants an advantage.

Forms of application from Housing Manager, Council House, Bristol, returnable by 12th MAY.

WEST HAM
COUNTY BOROUGH.

Applications invited for:—

(I) GENERAL FOREMAN for appointment in Works Branch of Borough Engineer's Department which executes varied building works ranging from alterations and repairs to multi-storey flat construction. Rate of pay 16 to 18 guineas per week according to size of contract.

(II) 2 BONUS MEASURING ASSISTANTS experienced in measuring building works in all trades for incentive bonus. Salary Misc. Grade V, £650 to £715 p.a., plus London Allowance £20-£30 p.a. according to age.

Applications in writing, giving full particulars of experience, age, etc., to Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15, by 7th MAY, 1960.

BRACKNELL
DEVELOPMENT CORPORATION.

Applications are invited from Corporate Members of the R.I.B.A. for the post of SENIOR ARCHITECT, salary range £1,392 x £57(4)—£1,620. The successful applicant will be required to take charge of the Section dealing with the erection of Industrial buildings, and applicants should, therefore, have had considerable experience in the design and construction of this type of building. Superannuation schemes, medical examination. Housing available.

Apply by 18th MAY, 1960, giving age, education and qualifications, experience and appointments held (with dates and salaries) and names of two referees to General Manager (S.A.) Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

EAST SUFFOLK
COUNTY COUNCIL.

APPOINTMENT OF CLERK OF WORKS AT KESGRAVE
(amended Advertisement).

Applications are invited for the post of CLERK OF WORKS at a salary of £17 per week for the erection of extensions at Kesgrave Modern School. The appointment is temporary, terminable by one month's notice on either side; it is anticipated that building work will be in progress for about 20 months.

Applicants must have a thorough knowledge of building construction and all building trades, be conversant with Bills of Quantities, Specifications and Drawings, and be able to measure and check quantities.

Applications, stating age, qualifications, present employment and experience, together with copies of two recent testimonials, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, not later than FIRST POST on THURSDAY, the 5th MAY, 1960.

Canvassing will disqualify.

BURY
COUNTY BOROUGH.

Applications invited for permanent appointment of ASSISTANT QUANTITY SURVEYOR A.P.T. I (£610-£765) or A.P.T. II (£765-£880) or A.P.T. III (£880-£1,065) or Special Grade (£785-£1,070). Commencing salary according to qualifications and experience.

Applications stating age, details of training, qualifications, experience, present and previous appointments and salary, together with names and addresses of two referees, must reach me by 2nd MAY, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
11th April, 1960.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

ASSISTANT ARCHITECT. Special Classes Scale (£785 x £40 (6) x £45—£1,070).

TECHNICAL ASSISTANT (ARCHITECTURAL). Grade A.P.T. II (£765 x £25 (1) x £30 3)—£880).

ASSISTANT QUANTITY SURVEYOR Special Classes Scale (£785 x £40 (6) x £45—£1,070).

A Flat is available for a suitable candidate.

Candidates must be suitably qualified and experienced.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, forthwith.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

The Board envisage an expansion of their hospital building programme. A large proportion of the work will be designed and supervised by the staff of the Regional Architect's Department. Applications are invited for the following posts:

(a) PRINCIPAL ASSISTANT ARCHITECTS.
Salary scale, £1,665 to £2,035.
Qualification: Registered Architect by examination.

(b) ASSISTANT ARCHITECTS.
Salary scale, £905 to £1,310.
Qualification: Registered Architect by examination.

(c) ARCHITECTURAL ASSISTANTS.
Salary scale, £625 to £900.
Qualification: Intermediate R.I.B.A.

(d) SENIOR ASSISTANT QUANTITY SURVEYOR.
Salary scale, £1,300 to £1,600.
Qualification: Corporate Membership R.I.C.S.

(e) ASSISTANT QUANTITY SURVEYOR.
Salary scale, £905 to £1,310.
Qualification: Corporate Membership R.I.C.S.

(f) QUANTITY SURVEYING ASSISTANTS.
Salary scale, £625 to £900.
Qualification: Inter R.I.C.S.

These posts are not necessarily restricted to those with previous hospital experience. They offer opportunities for gaining knowledge and experience of the whole field of hospital architecture, ranging from adaptation schemes to comprehensive new hospital projects, and including ward units, operating theatres, out-patients' departments, maternity units, X-ray departments, kitchens, boiler houses, staff housing accommodation and numerous other types of building.

It is anticipated that some candidates will be given the opportunity of attending a special post graduate training course at the R.I.B.A. from the 11th to 16th JULY, 1960, followed by other studies later in the year.

All posts superannuable. Five-day week. Generous annual leave.

Applications to Secretary, Birmingham Regional Hospital Board, 10 Augustus-road, Birmingham 15, by 16th MAY, 1960, stating qualifications, age, experience, present position and salary and names of two referees.

GLASGOW
CORPORATION.

ARCHITECTURAL AND PLANNING DEPARTMENT.
ASSISTANT ARCHITECTS.
ASSISTANT QUANTITY SURVEYORS.

Vacancies exist for a number of qualified ASSISTANTS as above. Salary scale £795-£1,240 with placing according to experience.

Applications should be addressed to the City Architect and Planning Officer, 20 Trongate, Glasgow, C.1. Those who have submitted applications during the past 12 months should not reply to this advertisement.

A. G. JURY,
City Architect and Planning Officer.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

ARCHITECTS and BUILDING SURVEYORS required for improvements, alterations and extensions. Jobs up to £20,000. Selected candidates will be responsible for surveys, schemes, working drawings, specifications and supervising contracts. Up to £1,135 according to qualifications and experience. (Salary scales at present under review with probable maximum of £1,250.)

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/910/4B), County Hall, S.E.1.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

GODSTONE
RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. II (£765-£880 p.a.) or Grade A.P.T. III (£880-£1,065 p.a.), according to qualifications and experience. Applicants should have passed the Intermediate R.I.B.A. examination.

A car allowance on the essential user basis (not exceeding 1199 c.c.) is payable and housing accommodation is available, if required.

Applications stating age, qualifications and experience together with names and addresses of two referees, should reach the undersigned not later than 5th MAY, 1960.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted,
Surrey.
14th April, 1960.

STRUCTURAL
ENGINEERS.

ENGINEERS Required in Architect's Department, L.C.C., up to £1,135 (under review).

a) STRUCTURAL ENGINEERING DIVISION.—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

b) STRUCTURAL ENGINEERING DIVISION.—To deal with applications in respect of special structures under Part IV of London Building Act (A) Act, 1939, and constructional by-laws. Interesting work in involving consideration of unconventional forms of construction.

c) DISTRICT SURVEYOR'S SERVICE.—Work mainly outside involving negotiations with Architects, Engineers and Surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/495/4E), County Hall, S.E.1.

BUILDING SURVEYORS

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyor's Service for work in connection with applications under London Building Acts and by-laws. District Surveyor's offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,135 (under review) commencing according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/494/4E), County Hall, S.E.1.

COVENTRY CITY

QUANTITY SURVEYORS.
A.P.T. IV-V, £1,065 x £55 and £50-£1,375.

Appointment may be made, according to appropriate qualification experience, within the Grade. Permanent and pensionable subject to satisfactory medical history.

HOUSING ACCOMMODATION in approved circumstances. Removal expenses loan.

Opportunity for interesting and varied experience, including both new and traditional techniques, in a progressive office with good conditions in a growing modern City.

Details and application forms from City Architect and Planning Officer, New Council House, Coventry, returnable by 13th MAY, 1960.

LONDON
COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for the certificate of proficiency to perform the duties of district surveyor will be conducted in London in the week commencing 10th OCTOBER, 1960. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,850 to £3,000 a year) or as Assistant District Surveyor (present salary scale £1,295 to £1,535 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EK/B/1008/4), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st SEPTEMBER, 1960.

HEMEL HEMPSTEAD
BOROUGH.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of a CLERK OF WORKS in the department of the Borough Engineer at a salary of £15 15s. per week. Applicants must have considerable experience in the construction of roads, sewers, houses and public buildings. A casual users' car allowance or motor cycle allowance will be paid.

The appointment will be subject to the Local Government Superannuation Acts, to the National Conditions of Service from time to time in force and to the passing of a medical examination.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be sent to A. H. Turner, A.M.I.C.E., Borough and Water Engineer, High-street, Hemel Hempstead, Herts, not later than MONDAY, 13th MAY, 1960.

Canvassing will disqualify and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
Hemel Hempstead,
Herts.
April, 1960.

SURREY
COUNTY COUNCIL.

Applications invited for appointment of ASSISTANT ARCHITECTS, QUANTITY SURVEYORS, HEATING ENGINEERS, ELECTRICAL ENGINEERS and STRUCTURAL ENGINEERS in the salary range of £785-£1,220 p.a. plus £30 p.a. London Allowance.

Commencing salary will be in accordance with qualifications and experience.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

MANCHESTER.
CITY ARCHITECT'S OFFICE.

Applications invited for appointment on the permanent staff of a District Building Surveyor. Applicants must be conversant with the Model Building By-laws, have had experience in the supervision of building works and the treatment of dangerous buildings. Should have passed the Building Surveyors Examination of the R.I.B.A., or the Building Inspectors Examination of the Institution of Municipal Engineers or hold equivalent qualifications. Salary A.P.T. II, £765-£880. Housing accommodation for a limited period may be provided. Removal expenses allowed. Five-day week. Forms of application from City Architect, P.O. Box 488, Town Hall, Manchester 2, returnable by 10th MAY, 1960.

HUNTINGDONSHIRE.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ARCHITECTURAL ASSISTANT, Special Grade (£785-£1,070);

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. 2 (£765-£880).

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms and further particulars may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by FRIDAY, 13th MAY, 1960.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

MANCHESTER
CITY ARCHITECT'S OFFICE.

Applications invited for the appointment on the permanent staff of a SENIOR ASSISTANT ARCHITECT, salary A.P.T. IV, £1,065-£1,220 per annum. Housing accommodation for a limited period may be provided. Five-day week. Removal expenses allowed.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable by 9th MAY, 1960.

SURREY
EDUCATION COMMITTEE.

EWELL COUNTY TECHNICAL COLLEGE DEPARTMENT OF BUILDING AND SURVEYING.

Required for September, 1960, Grade "B" ASSISTANTS for:—

(i) Surveying Course in which students are prepared for examinations of the R.I.C.S. Applicants should have good professional experience and A.R.I.C.S. or equivalent qualifications. Teaching experience and ability to take Quantities an advantage.

(ii) Mathematics and Building Science—to teach O.N.C. Students. Ability to organise Craft Science an advantage.

(iii) Building Construction and General Building subjects to O.N.C., H.N.C. and O.N.D. students. Applicants should have good industrial and teaching experience and have L.I.O.B. or similar qualifications. Ability to organise short courses and lecture to building foremen an added recommendation.

Salary £700 x £27 10s./£37 10s.—£1,150 plus London Allowance.

S.A.E. for application form and further particulars from the Principal, Ewell County Technical College, Reigate-road, Ewell.

STOCKPORT
COUNTY BOROUGH.

QUANTITY SURVEYOR. Required, Borough Architect's Department. Salary £1,065 to £1,220 (A.P.T. IV), commencing according to age, qualifications and experience. Varied and large scale building programme. The Corporation have a scheme for advancing, in approved cases, loans for house purchase up to 100 per cent. Applications, stating age, qualifications, experience, two referees, and if related to any member/senior officer of Council, to Borough Architect, Town Hall, Stockport, by 10th MAY, 1960. Canvassing disqualifies. Post pensionable, subject to medical examination.

SOUTHAMPTON
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:

(i) ASSISTANT QUANTITY SURVEYOR. Applicants must be chartered quantity surveyors, preferably with experience in municipal housing including multi-storey flats and shopping centres.

(ii) ASSISTANT ARCHITECT. Applicants must have passed Parts I and II of the R.I.B.A. final examination and have had experience in housing design and construction and estate layout, preferably with a municipal authority.

Salaries for the above appointments within the grading for Special Classes of Officers (£785-£1,070) according to experience and qualifications—(a commencing salary of £950 is envisaged).

(iii) ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £765-£880. Applicants are required to have passed the intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture, and preferably have had experience in local government housing.

The appointments are subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by MONDAY, 16th MAY, 1960.

WANSTEAD & WOODFORD
BOROUGH.

BUILDING INSPECTOR'S ASSISTANT (Miscellaneous Grade IV £590-£650 plus London Weighting).

Applications are invited for the above POST in the Borough Engineer's Department. Application forms obtainable from L. S. Jeffery, Esq., Borough Engineer and Surveyor, Municipal Offices, High-road, Woodford, E.18, should be returned by FIRST POST on 14th MAY, 1960.

SOUTH WEST
METROPOLITAN REGIONAL HOSPITAL BOARD.

APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for this temporary appointment to supervise certain works at St. James' Hospital, Balham, and at other hospitals in the vicinity. A large scheme of development comprising four operating theatres, central sterilising unit, kitchens and dining rooms is now being prepared for St. James' Hospital, and the person appointed will be expected to supervise this work in due course.

Rate of pay within the range of £15 15s. to £21 a week.

Candidates must have trained as craftsmen with a thorough knowledge of all branches of the building trade and experience in the erection of large buildings including Mechanical and Electrical Services and the keeping of records (experience in hospital building an advantage).

Applications stating age, present appointment, qualifications and experience, and giving the names and addresses of two Architects to whom reference can be made, should be sent to the undersigned at 40 Eastbourne-terrace, London, W.2, not later than 11th MAY.

E. G. BRAITHWAITE,
Secretary.

RICKMANSWORTH
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment in the Engineer and Surveyor's Department. Salary on Grade A.P.T. II (£765-£880). Applicants must be experienced in the preparation of plans and specifications with particular reference to the design of Council Houses. Applicants must state whether they wish the Council to provide housing accommodation and any such request will be considered. Applications endorsed "Architectural Assistant," giving the names and addresses of two referees, to be delivered to the undersigned not later than SATURDAY, 7th MAY, 1960.

C. G. RANSOME WILLIAMS,
Clerk of the Council.

Council Offices,
Rickmansworth,
Herts.
14th April, 1960.

CARDIFF CITY

CITY ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade IV, £1,065-£1,220 per annum.

Applicants should be fully experienced and qualified Quantity Surveyors.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of two referees, appropriately endorsed, should be delivered to me not later than the 16th MAY, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
April, 1960.

WATFORD
RURAL DISTRICT COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade A.P.T. IV/V (£1,065-£1,375) in the Engineer and Surveyor's Department. Essential user allowance for a car not exceeding 1,199 c.c. will be paid and housing accommodation can be provided if required.

Candidates should have passed the final examination of the R.I.B.A. and have had previous experience on local authority housing.

Applications, stating age, married or single, education, training, examinations passed, present and previous appointments and details of experience, and giving names and addresses of two referees, to the Clerk to the Council, 99 Langley-road, Watford, Herts, not later than MONDAY, 16th MAY, 1960.

LUTON
BOROUGH.

Applications invited for:—

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, A.P.T. I/Special (£610-£1,070).

Extra duty allowances, particulars of which will be supplied with application forms, payable on the following scale:—

A.P.T. IV, £150 per annum;

A.P.T. III and Special Grade, £125 per annum;

A.P.T. II, £100 per annum.

Applicants for posts (a) must be A.R.I.B.A. and should have had considerable practical experience.

The grade and commencing salary for (b) will be within the range stated according to experience and qualifications.

Large constructional and development programme offers a variety of work and experience.

Consideration will be given to the provision of housing accommodation and payment of removal expenses in approved cases.

Application forms from Borough Architect, Town Hall, Luton, returnable by 14th MAY, 1960.

CORBY
DEVELOPMENT CORPORATION.

ARCHITECTURAL ASSISTANTS. There are vacancies on the staff of the Chief Architect for two ARCHITECTURAL ASSISTANTS.

The appointments will be made within A.P.T. Grade II (£765-£880). The commencing point within the Grade will depend upon qualifications and experience.

Candidates will be expected to have passed the intermediate examination of the Royal Institute of British Architects or an equivalent examination recognised by the Architects Registration Council.

The appointments are subject to superannuation under the Local Government Superannuation Scheme.

Housing is available. Removal expenses paid.

Applications stating age, education, training, qualifications, experience, appointments held and salaries, together with the names of two referees must reach the undersigned by MONDAY, 9th MAY.

R. F. BROOKS GRUNDY,
General Manager.

Corby Development Corporation,
Spencer House,
Corby,
Northants.

MACCLESFIELD
BOROUGH.

APPOINTMENT OF MEASURING SURVEYOR.

Applications are invited for the appointment of a MEASURING SURVEYOR in the Borough Architect's Department (A.P.T. II, £765-£880). Housing accommodation may be made available if required.

Applicants should be experienced in site measurement, Interim Valuation and preparation of Final Accounts.

Application forms obtainable from the Borough Architect, 3 Jordangate, Macclesfield, to be returned to the undersigned not later than MONDAY, 23rd MAY, 1960.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

ESSEX
COUNTY COUNCIL.

LAND AGENT AND VALUER'S DEPARTMENT.
TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment. Salary within A.P.T. Grade II (£765-£880).

Candidates must have had previous architectural experience (preferably with a Local Authority) on housing work. They should be capable of making surveys of existing properties, preparing working drawings and specifications, and supervising works of reconditioning and improvements to dwellinghouses.

Application Forms from *The County Land Agent and Valuer, 69, Duke-street, Chelmsford, to whom they should be returned not later than first post on MONDAY, the 16th MAY, 1960.*

NEWCASTLE
REGIONAL HOSPITAL BOARD.

P. H. KNIGHTON, M.B.E., A.R.I.B.A.
EXPANSION OF REGIONAL ARCHITECT'S DEPARTMENT.

Arising from the number of major projects (totalling about £12m.) to be carried out in the Newcastle Region as part of the Hospital Expansion Programme, the Board intends to add considerably to its Architectural Department in Newcastle.

The salary scales offered represent a considerable improvement on those hitherto applicable and are the result of a new National agreement recently reached.

The work is of a high class and varied nature and offers ample opportunity for gaining experience in both highly specialised hospital structures and many types of ancillary general and domestic buildings. The work will involve all stages from sketch plans to supervision of construction and a car mileage allowance will be paid.

Possession of previous hospital experience is not essential since arrangements are being made on a national basis for a course of instruction in this field and for seeing recently completed hospital buildings.

Applications are invited for the following superannuable posts and candidates for posts 1, 2 and 3 must be Registered Architects.

1. PRINCIPAL ASSISTANT ARCHITECTS (£1,665 x £50(1) x £75(2) x £85(2)—£2,035). To act as main Group Leaders.

2. SENIOR ASSISTANT ARCHITECTS (£1,300 x £60(5)—£1,600). To act as Team Leaders.

3. ASSISTANT ARCHITECTS (£905 x £35(1) x £45(6) x £50(2)—£1,310). Will be individually responsible for parts of major projects or for certain smaller schemes.

4. ARCHITECTURAL ASSISTANTS (£625 x £30(8) x £35(1)—£900). Inter R.I.B.A., and some practical experience.

5. ARTICLED PUPILS (£230 (at age 15) x £20(1) x £25(8) x £30(1)—£480). In view of the opportunity which exists for general experience and for study at King's College, Newcastle, the Board is prepared to accept Pupils into its Architectural Department. Candidates must have at least the General Certificate of Education in five subjects at Ordinary level.

Applications are also invited for:—

6. CHIEF QUANTITY SURVEYOR (£1,765 x £50(1) x £75(2) x £85(2)—£2,135).

Applicants must hold corporate membership of the Royal Institute of Chartered Surveyors. The Board at present has no quantity surveying staff and the successful candidate will be required to act as Staff Quantity Surveyor in association with a number of private firms of quantity surveyors commissioned by the Board for specific projects.

7. CLERKS OF WORKS (salary within the scale £800 x £40(5) x £50(1)—£1,050).

Each of the successful candidates will be required to supervise the construction of a major hospital project in one of the following locations—Newcastle, Ashington and Carlisle, and to have had previous experience as a Clerk of Works on major public buildings. The posts will be for the duration of the projects—approximately two years in each case.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 12th MAY, 1960.

CHESHIRE

COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CHIEF ASSISTANT, SITES AND SURVEYS.

Applications are invited, on forms obtainable from me, for the above appointment in Grade J.N.C. "B," £1,320 x £55-£1,485.

Applicants must have had considerable experience (preferably with a Local Authority) in selecting, reporting on and surveying sites for various projects, negotiating with owners, obtaining Planning Approvals, Compulsory Purchase Orders, Public Inquiries, etc. They should hold appropriate qualifications such as Membership of the R.I.C.S. (Valuation Sub-Division).

Completed forms should reach me by the 18th MAY, 1960.

EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.
25th April, 1960.

EALING
BOROUGH.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765), plus London weighting. Must have passed Inter. R.I.B.A. or its equivalent.

Full particulars and application forms from Borough Engineer, Town Hall, Ealing, W.5.

Closing date 2nd MAY, 1960.

E. J. COPE-BROWN,
Town Clerk.

HIGH WYCOMBE
BOROUGH.

ASSISTANT HOUSING REPAIRS SUPERVISOR.

Applications are invited for the above appointment (salary scale Misc. VI—£715 x £20—£775 per annum).

Applicants, preferably aged 30-45, must have had good practical experience in all branches of the building trade and be capable of supervising contract work, particularly in the plumbing and bricklaying trades. Ability to estimate the cost of, and write specifications for, minor works will be an advantage.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference can be made, should be sent to the undersigned not later than NOON on MONDAY, 16th MAY, 1960.

Assistance will be given in the provision of housing accommodation, if required.

J. A. PARKINSON,
M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

PORTSMOUTH CITY

BUILDING WORKS ASSISTANT, commencing salary within scale A.P.T. I (£610-£765 p.a.), according to experience. Applicants for this permanent and superannuable post must be L.D.I.B. or hold H.N.C. Building and be capable draughtsmen experienced in preparing working details, estimating, progressing and costing.

Full personal details in writing to City Engineer, 1 Clarence-parade, Portsmouth, by 11th MAY, giving two referees. Housing accommodation considered. Canvassing disqualifies.

DEWSBURY
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BOROUGH ARCHITECT AND BUILDING SURVEYOR'S DEPARTMENT

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT (Education Section), A.P.T. Grade IV.

(b) TOWN PLANNING ASSISTANT, A.P.T., Grade IV.

The commencing salaries will be fixed within the scope of the grades stated according to qualifications and experience, i.e. A.P.T. Grade IV, £1,065-£1,220 p.a. Applicants for (a) should be A.R.I.B.A. and for (b) A.M.T.P.I.

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than TUESDAY, 17th MAY, 1960, in envelopes endorsed "Appointment of —."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
25th April, 1960.

PETERBOROUGH CITY

ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, A.P.T. I (£610 x £30—£765). Application forms from City Engineer, Town Hall, Peterborough. Housing accommodation will be provided if required. Closing date 13th MAY, 1960.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
April, 1960.

LONDON
COUNTY COUNCIL.

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ASSISTANT, Grade A, in Department of Building, to teach Painting and Decorating to craft apprentices and secondary technical school boys at the Annexe, Worsley Bridge-road, Lower Sydenham, S.E.26. Previous teaching and/or industrial experience desirable; should possess C. & G. 1st Class Certificate or equivalent.

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Application forms from Secretary at College, Lewisham-way, S.E.4, to be returned by 16th MAY. (1005)

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£765-£880 per annum). Forms etc. from Arthur Hamilton, B.Sc., A.R.I.B.A., Borough Surveyor, P.O. Box 17, Municipal Offices, Blackpool.

BRIGHTON
COUNTY BOROUGH.

ASSISTANT HEATING AND VENTILATING ENGINEER.

Applications are invited for the appointment of an ASSISTANT HEATING AND VENTILATING ENGINEER in the Borough Surveyor's Department, in accordance with A.P.T. Grade IV (£1,065 to £1,220), the commencing salary to be fixed in accordance with qualifications and experience.

The appointment will be subject to the Conditions of Service and Salary Scales of the National Joint Council and to the provisions of the Local Government Superannuation Acts 1937-1953.

The successful candidate will be required to pass a medical examination and the appointment will be subject to one month's notice on either side. Applicants must be associate members of the Institution of Heating and Ventilating Engineers and have experience in the design of low pressure hot water heating systems and allied plant.

Application forms may be obtained from D. J. Howe, M.I.C.E., M.I.Mun.E., Borough Surveyor, Engineer and Planning Officer, 26-30 Kings-road, Brighton, and are to be returned not later than NOON on 26th MAY, 1960.

W. O. DODD,
Town Clerk.

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CORPORATION

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LONDON
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Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1009/4), County Hall, London, S.E.1.

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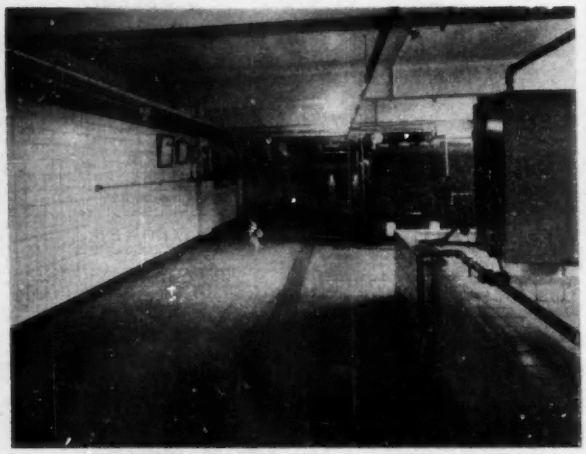

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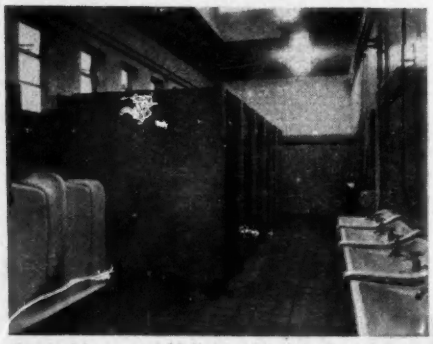

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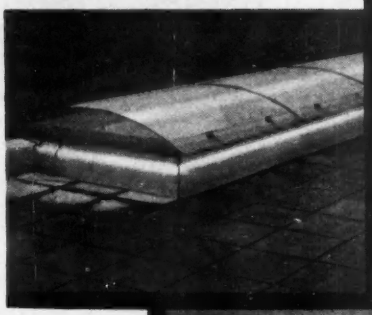

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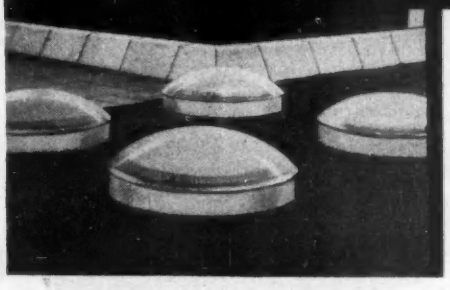

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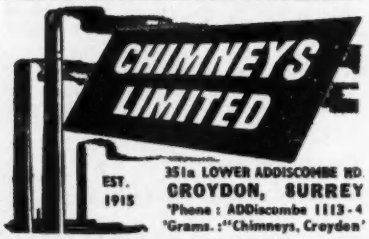

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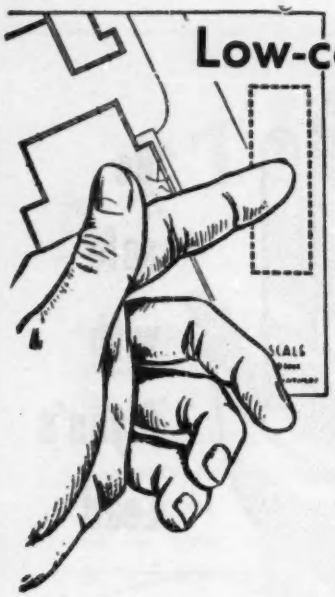

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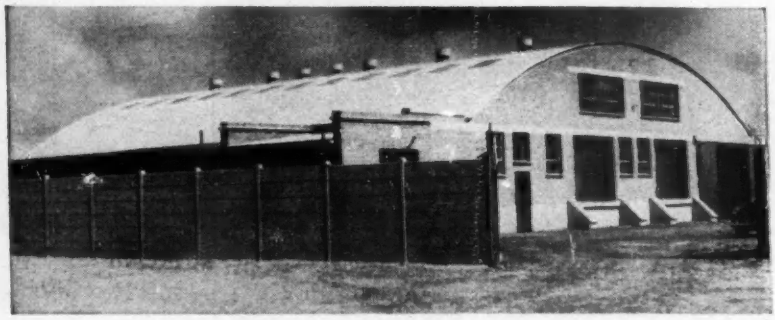

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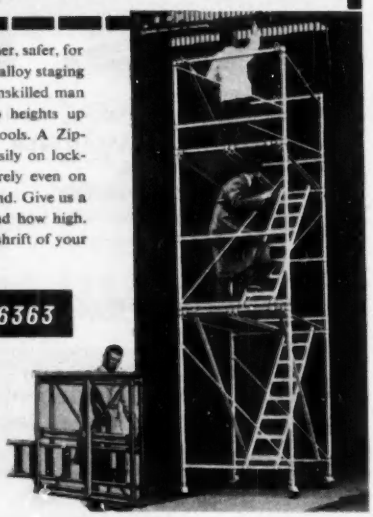

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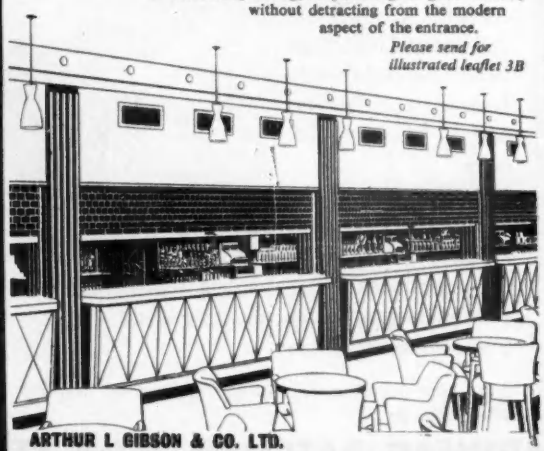

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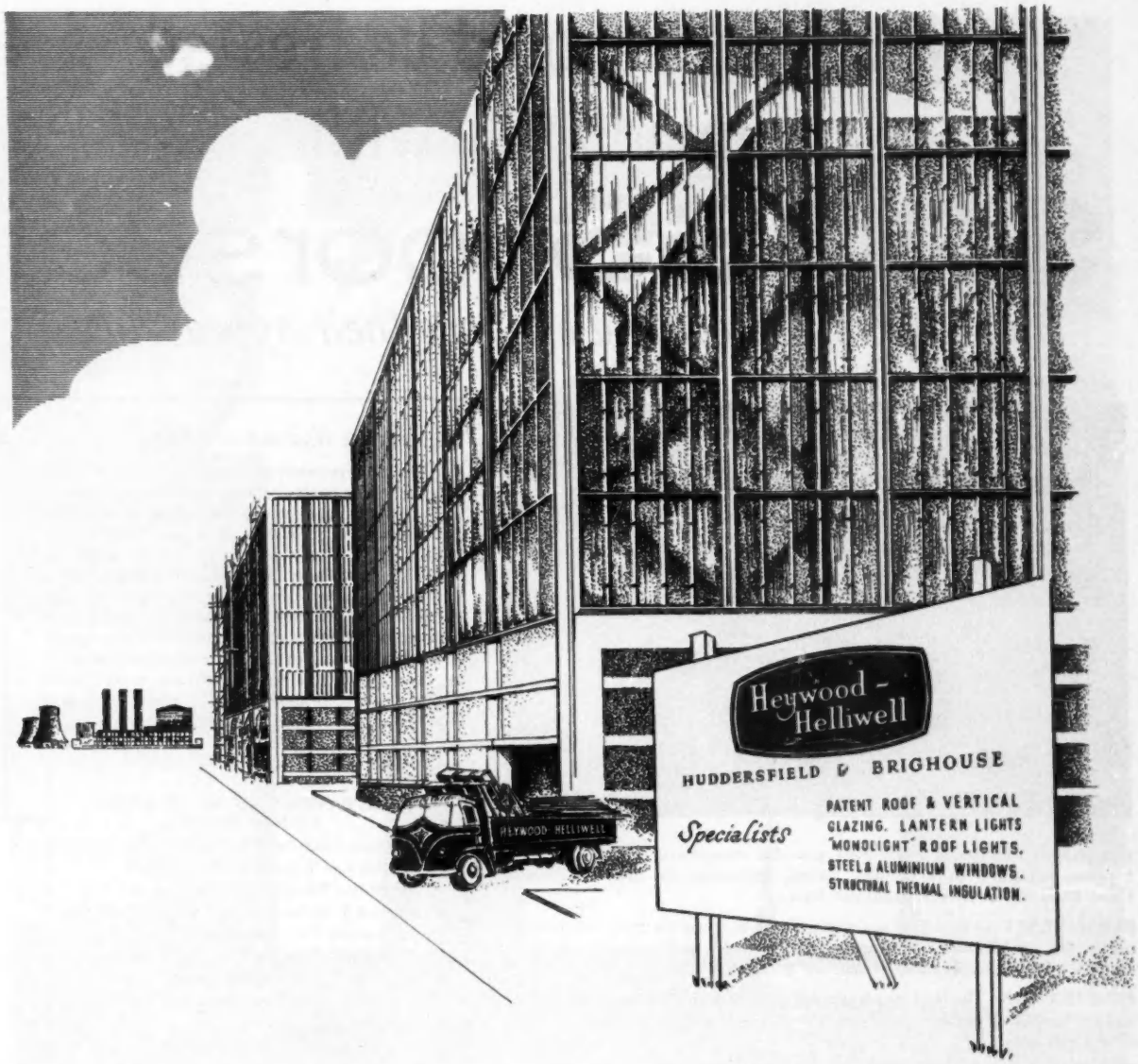

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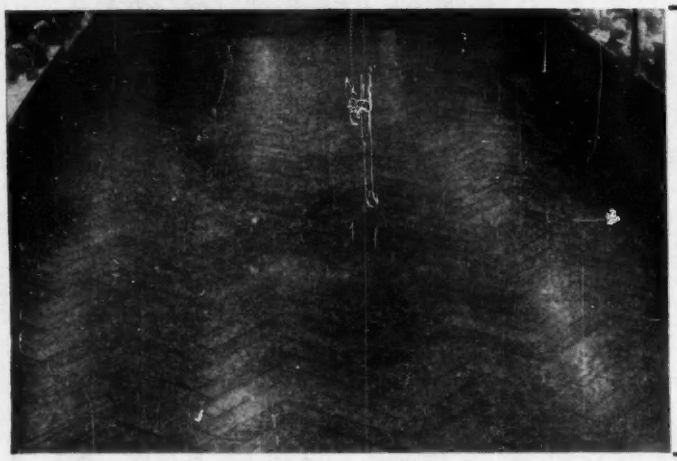

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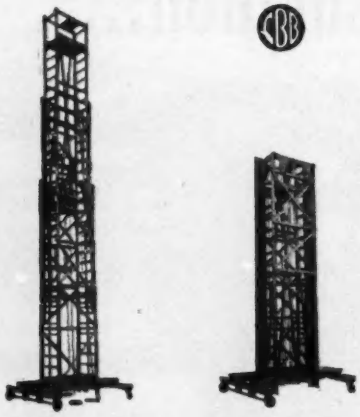

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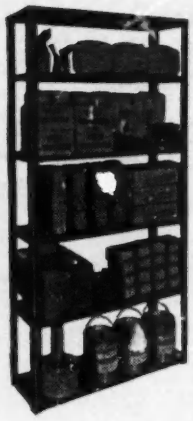

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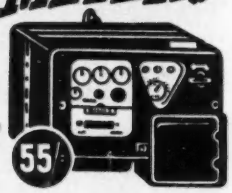

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CHANNEL ISLANDS.—ARCHITECT'S ASSISTANT Required, preferably qualified, with experience of traditional and modern domestic work.—Full details, age, salary, experience, etc., to H. SPEAKMAN, F.R.I.B.A., A.M.T.P.I., Crown Steps, Guernsey.

ARCHITECTURAL ASSISTANT, Intermediate standard, Required in City office of multiple company. Excellent opportunity to gain experience and advancement. Five-day week, staff restaurant and pension scheme. Salary according to ability and experience.—Reply to Architects' Dept., INTERNATIONAL TEA COMPANY'S STORES Ltd., Mitre-square, London, E.C.3.

ARCHITECTURAL ASSISTANT, about Intermediate standard, Required for general practice in North Devon office. Pension scheme.—Box 939, "The Builder."

SYDNEY TATCHELL, SON & PARTNERS Require ARCHITECTURAL ASSISTANTS with at least three years' office experience.—Write stating age, experience and salary required, to: Clifford's Inn, Fleet-street, London, E.C.4.

CROYDON. Experienced and competent ARCHITECTURAL ASSISTANT wanted.—Write stating fullest particulars to GRAHAM CRUMP & DENIS CRUMP, F/A.R.I.B.A., 43 George-street, Croydon.

ARCHITECTURAL ASSISTANT, Intermediate/Final standard, Required by Industrial Organisation in London. Five-day week, free lunches, pensionable. —Apply stating qualifications and salary required to Chief Surveyor, WIGGINS, TEAPE & CO., Ltd., Gateway House, 1 Watling-street, London, E.C.4.

ARCHITECTURAL ASSISTANT Required for busy West End office. Salary according to age and experience.—Apply to MAURICE SANDERS, F.R.I.B.A., 24, Harley-street, W.1.

OPPORTUNITY for Intermediate standard ARCHITECT'S ASSISTANT to obtain good experience and salary in multiple shop concern engaged on programme of new shops and modernisation throughout the country. This Company's Head Office will be transferred to Bracknell, Berks, in 1961. Cost of additional fares to London will be paid until the move and assistance with housing will be given to those living in London. Pension fund.—Apply with details of age and experience to Personnel Officer, MAC FISHERIES, 10/12 Little Trinity-lane, London, E.C.4. Tel.: No. MANsion House 3210.

ARCHITECTURAL ASSISTANTS

INTERMEDIATE OR FINALS STANDARD

required in

Chief Architect's Office

Interesting and varied work. Five-day week, bonus, etc. Appointments permanent and superannuable.

Write (in confidence) stating age, experience and salary required to Personnel Manager,

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have openings for

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CHIEF ARCHITECT,
CADBURY BROTHERS LIMITED,
BOURNVILLE, BIRMINGHAM

TAYLOR WOODROW CONSTRUCTION LIMITED

require

ARCHITECTURAL STAFF

at the Head Office in

SOUTHALL

There are vacancies for Intermediate and Qualified Architectural Assistants capable of independent work and for experienced Architectural draughtsmen in a department working on varied Industrial and Commercial schemes. Congenial working conditions. Restaurant. Pension Scheme.

Apply to: Personnel Manager,
345 Ruislip Road, Southall, Middx.
(WAXlow 2366)

REQUIRED immediately ARCHITECTURAL ASSISTANT, Inter. to Final standard, with at least three years' office experience, for new branch office in Exeter. Five-day week, minimum restrictions and above-average salary for applicant with initiative and sense of responsibility.—Box 2800, "The Builder."

ARCHITECTURAL ASSISTANT. Staff Architect in London, E.1, Requires pre-intermediate or intermediate standard ASSISTANT. Luncheon facilities, 5-day week.—Please write, giving full details, to Box No. 3341 c/o CHARLES BARKER & SONS, Ltd., Gateway House, London, E.C.4.

ASSISTANT Required by London Architects for general practice.—Write, stating experience, age, salary required and when disengaged, to Box 2784, "The Builder."

ARCHITECTURAL ASSISTANT (Intermediate Standard) Required. West Country town.—Write, Box 2769, "The Builder."

SENIOR ASSISTANT Required in busy General Practice in Romford Area. Experience in Schools and Flats an advantage. Salary range £1,000-£1,400. —Write, stating age and experience, to Box 2767, "The Builder."

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies in their London office for SENIOR and JUNIOR ASSISTANTS.—Write stating age, salary and experience to the above address at: 3 Park Square Mews, Upper Harley-street, N.W.1.

COURAGE AND BARCLAY Require ARCHITECTURAL ASSISTANTS of Intermediate standard for work at their Head Office on schemes of redevelopment, modernisation and alterations to their licensed houses. These are permanent positions with non-contributory pension scheme and five-day week and offer scope for carrying out schemes from inception to completion.—Applications with details of experience and salary required to Group Chief Architect, Horselydown, London, S.E.1.

ARCHITECTURAL ASSISTANT (Intermediate or Final standard), good Draughtsman, capable preparing working drawings and details, Required by HAL WILLIAMS & COMPANY, Architects and Consulting Engineers, 43 Bedford-square, London, W.C.1. 'Phone: MUS 9176 or write giving age, salary required, and experience to date.

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies in their Welwyn Garden City office for SENIOR and JUNIOR ASSISTANTS.—Write stating age, salary and experience to the above at: Midland Bank Chambers, Welwyn Garden City, Herts.

ARCHITECTURAL ASSISTANTS Required, Qualified and Unqualified. Salaries by arrangement. After qualifying period a Bonus Scheme is in operation, together with a non-contributory pension and life assurance scheme.—Telephone CHAncery 3526 for appointment, or write, WOODROFFE, BUCHANAN & COULTER, 5, Bedford-row, W.C.1.

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SHOPFITTING DESIGNER Required, experienced in shop equipment and modernisation of interiors. The position calls for the preparation of layouts and perspectives with a modern approach to shop fitting problems. Sound position with opportunity for advancement.—Applications giving full details of age, qualifications and past experience, in confidence, to Box 2722, "The Builder."

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DESIGNERS
DETAILERS, AND
DRAUGHTSMEN

are required for an immediate expansion of structural drawing office. The work will be interesting and involve the use of precast and prestressed concrete. Experience in these techniques will be an asset, but opportunity will be provided for training those who are interested and have some basic knowledge of reinforced concrete.

Please send full details to:—

Personnel Manager (B.5.462)
HOLLAND & HANNEN and CUBITTS (Great Britain) Ltd.
1, Queen Anne's Gate,
London, S.W.1.

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LADY TRACER and **DRAWING OFFICE JUNIOR** Required for Heating Engineers.—Write, giving age, experience and salary required, to Assistant Director, WILLIAM FREER Ltd., 49 Red Lion-street, Holborn, W.C.1.

JUNIOR DRAUGHTSMAN and **TRACER** is Required in the Architect's Department of the Milk Marketing Board. Applicants should be studying for the Intermediate examination of the R.I.B.A. and must be 17 years of age or more. The salary will be in the range £400 to £450 according to age and experience.—Applications, giving brief details of qualifications and experience, should be sent to the Personnel Officer, Milk Marketing Board, Thames Ditton, Surrey. Ref. 277.

DRAUGHTSMAN Required for Building Contractor's Office; previous experience in building construction detail essential.—Apply in writing to W. S. TRY LIMITED, Cowley, Uxbridge.

SENIOR and **JUNIOR DRAUGHTSMEN** and ARCHITECTURAL ASSISTANTS Required in the London head office of a multiple retail organisation. The work involves travelling, surveys, ½ in. and ¼ in. working details. A good standard of draughtsmanship is essential, with some perspective experience desirable for the senior posts.—Please reply to Box 981, "The Builder," stating age, experience and salary required.

DRAUGHTSMAN (experienced) Required by large Building Contractors in Putney area. Excellent prospects for right man. Superannuation; canteen. Consideration given to this year's holiday arrangements.—Write stating age, experience and salary required to Box 2717, "The Builder."

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YOUNG DRAUGHTSMAN Required by cladding specialist sub-contractors. Knowledge of building construction essential. Some knowledge of quantities an advantage. Hours 9.30 to 5.30, with some Saturdays. Luncheon vouchers.—'Phone: CHAncery 5557.

DRAUGHTSMAN Required by London Building Contractor for Shuttering Design and general building detailing. Wide experience in this field not essential.—Write giving full particulars and salary required to Box 2741, "The Builder."

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have vacancies for qualified
SHOPFITTING
DESIGNER/DRAUGHTSMEN

Salary according to ability. Write first, giving full particulars, to the Managing Director.

ARCHITECTURAL DRAUGHTSMAN Required for London office. Applicants must be able to prepare sketch designs, working drawings and details, be neat and accurate draughtsmen and have had some years' experience in an architectural drawing office. Salary within the range £827-£860 or £898-£973 per annum according to qualifications and experience.—Applications giving age, experience and qualifications to Personnel Officer (SV.115), BRITISH ROAD SERVICES Ltd., Melbury House, Melbury-terrace, London, N.W.1.

ARCHITECTURAL DRAUGHTSMAN Required for London office, with general experience, but particularly of work of an industrial character and ability to undertake site surveys, levelling, etc. Commencing salary £662 per annum.—Applications, giving age, experience and qualifications, to Personnel Officer (SV.116), BRITISH ROAD SERVICES Ltd., Melbury House, Melbury-terrace, London, N.W.1.

DRAUGHTSMAN Required for London office (S.W.) of National company of Specialist Roofing Contractors. Experience of building construction and detail preferable, and O.N.C. desirable. Good salary for right man. Permanent superannuated position, widows' pension scheme, bonus, canteen lunch free.—Box 2738, "The Builder."

REINFORCED CONCRETE DETAILER/DRAUGHTSMEN with knowledge of Building Construction Required by Pre-Cast Concrete Specialists at their Head Office near Guildford. Varied work with good prospects, superannuation and a commencing salary within the £600 to £800 p.a. range, according to qualifications and experience.—Apply to: The Senior Structural Engineer, MARLEY CONCRETE Ltd., Peasmarsh, Guildford, Surrey.

YOUNG ARCHITECTURAL DRAUGHTSMAN Required in N.W. London office.—Write, stating age, experience and salary required.—Box 2820, "The Builder."

PLANNING ASSISTANT

Holliday & Greenwood Ltd., require additional assistant in their contract Planning Department. Young men with site experience and good draughtmanship who wish to improve their future prospects on the contract organisation side are invited to apply in writing, stating age, qualifications, experience and salary to Holliday & Greenwood Ltd., 11 Buckingham Palace Gardens, S.W.1.

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QUANTITY SURVEYOR Required by building contractor in South Wales branch office for final accounts on contracts up to £150,000. Excellent prospects with an expanding company.—WM. EAVES & CO., Ltd., 11, Quay-street, Haverfordwest.

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ASSISTANT QUANTITY SURVEYOR (R.I.C.S. Final Standard) Required by GLEEDS, 106 Regent-street, W.1. Please write giving details of experience and salary required.

BUILDERS' QUANTITY SURVEYORS Required. One for Middlesex and one for Wiltshire area. Must be experienced and energetic. Able to drive. Excellent salary and prospects for really capable men.—Give particulars of age, experience and present emoluments to Box 2634, "The Builder."

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CHARTERED QUANTITY SURVEYORS Required for taking off in busy practice in South Yorkshire. Five-day week and non-contributory pension scheme in operation. Salary up to £1,600 per annum, according to age and experience.—Apply to Box 2672, "The Builder."

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QUANTITY SURVEYORS REF QS/5
ASSISTANT QUANTITY SURVEYORS REF QSA/8
COST SURVEYORS REF COS/3

Applicants for above positions must be prepared to work on contract sites in various parts of North West

BUYING ASSISTANTS (Age 21-25) REF BUY/6

Vacancies are at Headquarters, Bromborough.

Applicants should quote appropriate reference and give full details of past and present employment and salary (in confidence), together with education, qualifications, age and when available. All staff appointments are eligible for pension and bonus schemes.

The Company will also consider applications from suitable candidates for other technical positions.

All applications should be addressed to:

Personnel Officer,
HOLLAND & HANNEN AND CUBITTS (NORTH WEST) LTD.,
Building & Civil Engineering Contractors,
New Chester Road,
BROMBOROUGH, Wirral, Cheshire

QUANTITY SURVEYORS
&
ASSISTANTS

required for London Provincial and Overseas Contracts. Good Salary Superannuation, excellent prospects. Write giving details of experience, age, etc., to Personnel Department,

HUMPHREYS LTD.
Building and
Civil Engineering Contractors,
199 Knightsbridge S.W.7.

APC

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invite applications for the following vacancies in their Central London offices.

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The duties will include contractual work in connection with measurements, progress payments and variations.
Salaries will be in accordance with age and experience. The positions are permanent and pensionable. 5 day week. Applications giving full details of qualifications, experience, etc., should be sent to:—
The Personnel Manager (Ref. B/108),
Atomic Power Constructions Limited,
P.O. Box 90, 28 Theobalds Road, W.C.1

TAKER-OFF/MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Office, North Kent Housing accommodation available.—Please write stating age, experience and salary required to Box 2683, "The Builder."

QUANTITY SURVEYOR, well experienced, Required for site measurements, preparing interim valuations and final accounts on all classes of Building and Civil Engineering work. Pension scheme in operation.—Write in confidence, stating age, experience and salary required to General Manager, Constructional Department, CAWOOD WHARTON & CO., Ltd Southlands, Harrogate, Yorkshire.

BUILDER'S QUANTITY SURVEYOR, Midlands Area. Permanent well-paid position immediately available for good keen man, experienced in all aspects of Valuations and Final Accounts upon large contracts. Personal initiative essential.—Apply Box 2674, "The Builder."

QUANTITY SURVEYOR Required for South Devon Building Contractors. Permanent position for gentleman with wide experience of interim valuations, final accounts and general administrative work.—Applications with full details of age, qualifications and past experience in confidence to Box 2723, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by the LONDON CO-OPERATIVE SOCIETY Ltd. at their Works Department, Whitta-road, Manor Park, London, E.12. Pension and paid sickness schemes in operation. Commencing salary £740 12s. 0d. per annum. Candidates should be up to Intermediate Examination standard of the Institute of Quantity Surveyors and have had experience in London Building Practices and prices. Applications stating age, details of career and technical qualifications should be addressed to Staff Manager, LONDON CO-OPERATIVE SOCIETY Ltd., 54 Maryland-street, Stratford, London, E.15, endorsed "Assistant Quantity Surveyor."

MEASURING AND QUANTITY SURVEYOR Required by firm of builders and civil engineers in East Anglia. Applicant must be fully experienced with War Department schedule of prices and application. Attractive salary and prospects for right man.—Reply, stating qualifications, age, etc., to Box 2747, "The Builder."

A COMPANY of Medium/Large Heating and Ventilating Engineers Require the knowledge and training of a QUANTITY SURVEYOR to take charge and develop their estimating and pricing section. Good salary paid to man with progressive thought based on sound principles. Superannuation. 5-day week. London area.—Apply to Box 2739, "The Builder." Letters marked "Confidential."

QUANTITY SURVEYOR of Intermediate R.I.C.S. standard Required for West End office of Chartered Surveyor. Good terms and conditions.—Applications to CECIL F. BAKER, 20 Lowndes-street, S.W.1, marked "Private."

SITE MEASURING SURVEYOR Required for interesting and varied work.—Write stating age, experience and salary required, to FRANK N. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland, or telephone Seascale 462 for appointment.

QUANTITY SURVEYORS
required by
SIR ROBERT McALPINE
& SONS LTD.

Senior takers-off, site surveyors and senior and junior workers-up required for preparation of Building and Civil Engineering Bills of Quantities in South Wales. Interesting work. Excellent prospects. Good salaries.

Telephone:
Llanwern 531—Extn. 6
Langham 0481—Extn. 41
for interview

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Vacancies exist on major Civil Engineering and Industrial Building Projects for experienced :—

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Positions are available in various locations throughout Great Britain which offer excellent prospects and opportunity for permanency and promotion. Pension Scheme and Life Insurance. Apply in confidence giving age, details of education, training, qualifications and experience with indication of salary required to :—

ROBERT M. DOUGLAS (Contractors) LTD.,
395, George Road, Erdington, Birmingham 23.

QUANTITY SURVEYORS

Senior Quantity Surveyors required for interesting work in Preston office. Applicants should be Chartered Quantity Surveyors and should have had experience on large contracts. Permanent appointments with attractive pension scheme and top level salaries.

Full particulars of qualifications and present appointment and salary to:

Arnold E. Towler, A.R.I.C.S.,
Manfield Chambers,
117 Fishergate, Preston, Lancs.

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Require the services of

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for major civil engineering and building contracts in the South West Midlands and for works administered from Regional Offices at London, Hull, Middlesbrough and Stamford (Lincs.). Salary according to age, experience and qualifications. Superannuation scheme in operation. Please reply stating age, previous experience and salary required to the Chief Surveyor at the Company's Head Office at Padgate, Warrington, Lancs. Replies will be treated in confidence.

ASSISTANT QUANTITY SURVEYORS

with an aptitude for specification writing required to join "Package Contract Team" of London Contractors.

These are permanent, progressive and responsible positions and only those applicants with good construction knowledge and the will to work hard will be considered. Apply in confidence, giving details of past experience and employers, together with salaries, to

Box No. 2534 "The Builder"

TOKEN CONSTRUCTION COMPANY LTD.,

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Experienced man required capable of controlling all types of contracts from commencement to final account. Reply to :-

Personnel Director, 68 Mount St., W.1.

ASSISTANT QUANTITY SURVEYOR Required by London firm of Quantity Surveyors having varied practice.—Please reply to Box 992, "The Builder."

CHARTERED QUANTITY SURVEYOR Required by London Quantity Surveyors. At least 2 years' experience since qualifying. Salary in the range of £1,200 to £1,500 per annum.—Box 2830, "The Builder."

SURVEYORS

COST AND BONUS SURVEYOR Required by MYTON LIMITED (a member of the Taylor Woodrow Group) for Contracts in Croydon. Progressive position with excellent opportunity. Pension scheme.—Replies to Personnel Manager, MYTON Ltd., "Western House," Western-avenue, Ealing, London, W.5.

TECHNICAL ASSISTANT Required by Divisional Surveyor for London and Home Counties, involving construction, alteration, and maintenance of transport and commercial properties. Knowledge of the London Building Acts desirable. Commencing salary £662 per annum.—Written applications should be addressed to **BRITISH ROAD SERVICES** Ltd., 238 City-road, E.C.1. (Ref. SWD/49.)

QUANTITY SURVEYORS, ASSISTANTS for progressive positions, intermediate standard, or equivalent. Generous remuneration.—VOISEY, 718 Chester-road, Birmingham 23.

PLASTERING Contractors in South West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary to Box 975, "The Builder."

EXPERIENCED SITE SURVEYOR for Final Accounts in professional Quantity Surveyors' office in Westminster area. Good salary and prospects for right man. Lunch Vouchers.—Apply Box 995, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

BUILDING SURVEYOR, Intermediate standard with minimum of two years' good office experience. Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

SURVEYOR Required by old-established Contractors specialising in Reinforced Concrete and finishings of Tiling Marble and Terrazzo. Experienced in taking-off and measuring for final account. (Salary in the region of £1,000.) The position is permanent and pensionable.—Write fully, experience and age to Box 952, "The Builder."

SITE SURVEYOR Required by Chartered Quantity Surveyors, for Civil Engineering Contract in Yorkshire. Probationary period in London office.—Write, stating age, experience and salary required, to Box 956, "The Builder."

A VACANCY EXISTS with well-known Building and Civil Engineering Contractors in West Middlesex for a SENIOR SURVEYOR with sound knowledge and experience of Interim Valuations and Final Accounts. A salary range of £1,250-£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and Bonus Schemes in operation.—Full particulars to Box 2593, "The Builder."

There are vacancies on the Staff of a

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MEASURING SURVEYORS

Work is interesting and varied giving a wide experience in many classes of building. There are good opportunities for promotion and salaries are reviewed regularly.

HOLIDAY ARRANGEMENTS FOR THIS YEAR WILL BE HONOURED

Staff bonus and Pension Scheme in operation. Successful applicants will be based at Head Office in the West End of London. Write for interview to Box No. 2610 giving age and experience.

Building

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(Head Office—York)

An interesting position is available for a Senior Planner in the Central Planning Department at our Head Office, to assist in the production of new projects.

Applications are invited from men between 28 and 38 years of age, experienced in quantity surveying and with a keen interest in advanced production planning techniques. Applicants with a sound knowledge of building construction and suitable quantity surveying experience would be considered for training for this position.

This permanent position offers attractive staff conditions, progressive salary, annual bonus, non-contributory pension scheme and assistance with housing. Summer holiday arrangements will be accepted.

Written applications, which will be dealt with in strict confidence, should state age, full details of experience, some indication of commencing salary required and should be addressed for the personal attention of:

Donald W. Shepherd, F.I.O.B.,
Technical Director,

F. SHEPHERD & SON LIMITED

Building & Civil Engineering Contractors,
Blue Bridge Lane, YORK.

BUILDERS' SURVEYOR Required, experienced in site measuring, final accounts and preparation of bonus rates.—Write, stating age and salary required, to SLOGGETTS (CONTRACTORS), Ltd., 209, High-street, Hampton Hill, Middlesex.

SITE-MEASURING SURVEYOR Required by Chartered Quantity Surveyor for Bedford/Northants border. Must be experienced W.D. Schedule. Immediate vacancy, age secondary consideration.—Write, stating experience, salary required, and if owner driver.—Box 2778, "The Builder."

You may have seen our previous advertisements for

SENIOR SURVEYORS and PLANNERS

and despite several appointments, we still have vacancies, due to promotion within the Group, at our Head Office in Birmingham.

We have car purchase, bonus and superannuation schemes and, if necessary, we may be able to assist you with housing.

If you are of above average intelligence, full of initiative and want to get on and join a progressive team, why not write to us forwarding, in confidence, your brief particulars, so that we can give you fuller details of the work involved.

Remember ! In our company, your salary is not based upon age but ability.

Apply to:

A. C. Bryant, Managing Director,
C. BRYANT AND SON LIMITED,
Small Heath, Birmingham 10.

Chartered Quantity SURVEYOR

required to manage London Office of Overseas Practice. Position offers scope for rapid advancement to an energetic ambitious man. Must be willing to make occasional short visits abroad. Commencing salary £1,500 to £1,700 per annum. Please reply, stating age, whether married and details of experience, to

Box 2762, " The Builder "

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Excellent prospects and a permanent position with a progressive Building Contractors in Wembley is offered to an ambitious man aged 25-35.

He would be responsible initially for contracts from enquiry to final account up to £100,000. A car will be provided and assistance in obtaining accommodation if required.

Apply, giving details of age and experience to :—

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A. E. A. PROWTING LTD.

require a

SURVEYOR in the Pre-Planning department capable of taking off quantities and preparing schedules for domestic dwellings. High salary and bonus and pension scheme with permanent progressive position offered to enthusiastic applicants.

Apply,
BURY STREET, RUISLIP, MIDDX.

COST AND BONUS

SURVEYORS

Required for site work in London area. Previous experience of measuring, calculation of bonus from labour targets essential. Attractive salaries and profit sharing bonus to right man. Subsidized travel. Superannuation and share investment schemes in operation.

Write fully, stating age, experience and present salary to: Personnel Manager,

WATES LIMITED,
1258/60, London Road, Norbury, S.W.16.

ASSISTANT TO SENIOR SURVEYOR Required for measuring Sub-Contractors' work, meeting Quantity Surveyors, preparing cost checks, interim Valuations and Final Accounts. Interesting job for young man aged about 25 years with general experience.—Write, stating age, experience and salary required, to KIND & CO. (BUILDERS) Ltd., 564 High-road, Leytonstone, E.11.

A SURVEYOR Required by West End Chartered Surveyor. Should be used to preparing Schedules of Dilapidations. Specifications and Plans for small work, supervising Builders' work, etc. Salary according to experience (£750-£1,000).—Send full particulars to Box 2612, " The Builder."

SURVEYOR/ESTIMATOR, age 21-26. Required for jobbing department of established contractors, Paddington area.—State experience, salary required to Box 2635, " The Builder."

BUILDING SURVEYOR/ESTIMATOR Required for Contractors, S.E. London area, preferably car driver. State age, previous experience and salary required. Holiday arrangements considered.—Box 2645, " The Builder."

SITE OFFICE TRAINEE BUILDER OR SURVEYOR Required in Bristol area.—Write stating qualifications and salary required.—Box 2678, " The Builder."

SURVEYOR Required by medium-sized Company of Plastering Contractors. Excellent opportunity for go-ahead man. Good salary, conditions, car allowance, etc.—Apply in confidence to Box 2720, " The Builder."

BUILDING SURVEYOR Required, Intermediate standard, with minimum two years' good office experience, for expanding Company. Must be used to Specifications, Quantities, Interim Certificates and Final Accounts, on Contracts of medium size. Some drawing ability an advantage. Salary according to experience, up to £700 per annum.—Please reply in writing to GRB CONSTRUCTION COMPANY Ltd., Midland Bank Chambers, High-street, Holywell, Flintshire.

BUILDING SURVEYOR Required for medium-sized South London Builders. Able to take decisions and particularly competent to negotiate orders with sub-contractors, and complete final accounts. Only experienced man with initiative to work on own need apply. Modern offices and working conditions. Summer holidays respected. Pension scheme available.—Write strictest confidence stating experience, salary required, etc., Box 2719, " The Builder."

MESSRS. OSWALD E. PARRATT Require experienced MEASURING SURVEYOR for their Harlow office. Five-day week, pension scheme, service agreement to suitable applicant. Housing accommodation may be available. State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

MEASURING SURVEYORS Required by Quantity Surveyors near London Bridge. Five-day week. Pension and Life Assurance scheme.—State age, experience and salary to Box 2730, " The Builder."

EXPERIENCED MEASURING SURVEYOR Required in site works and interim valuations. This is a permanent, pensionable position, salary commensurate with ability and experience.—Write in confidence, stating age, experience, past and present employers to: Ref. LTW/BN4, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

SENIOR ASSISTANT Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment. Superannuation scheme. Luncheon Vouchers, 5-day week. Good salary and prospects.—Write full particulars to Box 2734, " The Builder."

BUILDING SURVEYOR Required W.1. Architects. Office work will consist mainly of preparation of Specifications, checking accounts, supervising minor works, surveys, maintaining technical library, etc. —Apply, stating age, experience and salary required, to DAVID STERN & PARTNERS, 24, Gloucester-place, London, W.1.

OPPORTUNITY occurs for a young man 25-30 years, as Measuring Surveyor. Must be keen and smart-looking and have a good level of education. Car driver an advantage.—Apply, BOYD & MURLEY, Ltd., 87, London-street, Reading.

PLYMOUTH QUANTITY SURVEYORS Require various ASSISTANTS as soon as possible. Experience, salary required, etc., to Box 2760, "The Builder."

LLEWELLYN SMITH & WATERS. Chartered Architects, Require the following: (1) BUILDING SURVEYOR to prepare reports under the Ecclesiastical Dilapidations Measures; specifications for works of alteration and repair, and supervise medium-sized contracts. (2) CLERK OF WORKS to inspect work on large contracts, mainly industrial. This appointment will involve travelling. (3) QUANTITY SURVEYOR (not necessarily qualified) to deal with enquiries to sub-contractors.—Please apply, in writing, giving details of experience and salary required, to 103, Old Brompton-road, S.W.7.

BUILDERS' SURVEYOR, 25-30, with minimum five years' recent experience in builders' office, should be capable and willing to undertake contracts from £10,000 to £500,000. All applications treated confidentially and acknowledged.—Send full details and salary required to PEAK CONSTRUCTION (LIVERPOOL) Ltd., Knight-road, Strood, Kent.

SITE MEASURING SURVEYORS, fully experienced in W.D. Schedule Required by firm of chartered quantity surveyors in connection with A.M. contracts in South Midlands area. Permanencies offered to suitable candidates.—Write, stating age, experience and salary required, to Box 2779, "The Builder."

BONUS SURVEYOR Required immediately Preston/Manchester area. Previous experience essential. Permanent superannuated position after probationary period, car provided.—Details of experience to Box 2770, "The Builder."

W. H. COLT, SON & CO., Ltd., Bethersden, near Ashford, Kent. Tel: Bethersden 216, seek two young men familiar with building trade, for taking-off quantities; quantity surveyor not necessary.—Write, 'phone or visit.

ASSISTANT Required by London Surveyors for specifications, accounts, working-up, etc.—Write, stating age, experience, salary required, and when available, to Box 2785, "The Builder."

G. E. WALLIS & SONS, LTD.
require
SURVEYOR/ESTIMATOR
for Maidstone Office
Applications giving details of age, experience and qualifications to—
The Secretary,
G. E. Wallis & Sons, Ltd., 231, Strand, W.C.2.

Experienced

BONUS AND COSTING SURVEYORS

Senior and Assistant required for Civil Engineering and Roadwork Contracts. Mobility essential. Write, stating age, previous experience and salary required to

Personnel Officer,
A. Monk & Company, Limited,
Padgate, Warrington, Lancs.

BONUS AND COST SURVEYOR

Required by London Contractors engaged on a variety of work.

Excellent opportunity for a keen and hard-working surveyor to establish a soundly run bonus and costing section. Excellent prospects for right man.

A. T. Chown & Co. Ltd., Chilworth St., W.2.

SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

Box No. 2446, " The Builder "

2 experienced

BUILDING SURVEYORS

required for progressive Builder and Contractor based in S.E. London for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from enquiry to final account. Own staff notified.

Box 2661
"The Builder"

SENIOR BUILDING ESTIMATOR

Old-established National B. & C.E. Contractor in the Midlands with an expanding building programme invites applications from fully trained Building Estimators able to work on own initiative for Contracts up to £1 m. value.

Top salary, pension scheme, etc., available to suitable man.

Applications should state age, training, recent experience, etc., in confidence to

Box 2583, " The Builder "

SURVEYOR

with experience in dealing with Quantity Surveyors in settlement of Variation Accounts in the London area, required immediately by well known London firm of Building contractors. The position is permanent after normal qualifying period.

Applications, in confidence, stating age, experience and salary required to

BOX No. S.W. 3261,

A.K. Advg., 212a, Shaftesbury Avenue, London, W.C.2.

SURVEYOR

An experienced Surveyor is required to join the staff of an expanding London Contractors.

The Company has a history of continuous growth and a successful applicant will be expected to work with vigour and initiative.

Apply in writing to

A. T. CHOWN & CO. LTD.,

CHILWORTH STREET, W.2

A. J. WAIT & CO. LTD.

require

SENIOR & ASSISTANT SURVEYORS

for Contracts in the London & Home Counties areas.

Permanency and prospects for the right applicants. All details in confidence, stating age, training, experience and salary.

Apply in writing to **Chief Surveyor, Wellington Crescent, New Malden, Surrey.**

TERSONS LIMITED

are seeking Surveyors and

ASSISTANT SURVEYORS

in the Yorkshire area, due to continued expansion. Vacancies occur particularly in Sheffield and Huddersfield.

Excellent salaries and conditions are offered, together with prospects of promotion to executive positions.

Apply in confidence, stating age, previous experience and employers to Chief Surveyor, Tersons Ltd., 4 Dollis Park, London, N.3.

BUILDING ASSISTANT. THE LONDON HOSPITAL, Whitechapel, E.1 has vacancy in an approved office for a BUILDING ASSISTANT in the preparation of schemes arising from development and modification of building works. Technical requirements up to intermediate R.I.C.S. Adequate scope for personal responsibility through to completion of works and embracing all aspects of design, specification and construction. May suit older man of appropriate experience. Starting salary on scale £565-£795.—Write to Chief Engineer.

CITY firm Requires SURVEYOR for small contract supervision. Ideal for man over 50 until retirement. Box 2811, "The Builder."

SURVEYOR Required S.E. London area, alteration repair work. Age no objection. Must have experience of final accounts.—Box 2812, "The Builder."

SURVEYOR Required by old-established City firm for contracts up to £30,000.—Box 2814, "The Builder."

SURVEYOR Required by large London builders. Must have had experience in measuring Sub Contractors, all trades and dealing with Variations. Situation in the first instance would be on a large site but would carry excellent opportunities of advancement.—Reply, stating age, experience and salary required, to Box 2793, "The Builder."

MEASURING SURVEYOR Required by expanding firm of Painting Contractors, for Valuations and Final Accounts. Resident in London, age 25-40. Applications will be treated with utmost confidence.—Please write, giving full details, to G. & C. WHITTLE, Ltd., Cleveland Works, Cleveland-road, Acton Green, W.4.

CUBITTS

SURVEYING AND ESTIMATING STAFF

Appointments in London will be made as follows:—

SENIOR SURVEYOR

civil engineering, not less than 7 years' experience after training

SURVEYOR AND Estimator/Surveyor,

medium sized building work.

The positions offer very good conditions and prospects in a large and expanding organisation. Suitably qualified candidates are invited to write in strictest confidence to:—

Personnel Manager (B.5460)

HOLLAND & HANNEN and CUBITTS (Great Britain) Ltd., 1, Queen Anne's Gate, London, S.W.1.

ASSISTANT SURVEYORS

ASSISTANT BUILDING SURVEYOR, preferably with some professional training. Required by multiple jewellers for general duties connected with property management. Age 25/30; 5-day week; pension scheme. Starting salary £600/£750.—Apply, giving age and experience, to JAMES WALKER Ltd., Century House, Streatham, S.W.16.

ASSISTANT SURVEYOR, age 20-23. Required by Medium-sized Contractors experienced in site measurement and general surveying duties. Five-day week.—Apply, stating age, experience and salary required to ROBERT HART & SONS Ltd., 121 Victoria-street, S.W.1.

ASSISTANT SURVEYOR/ESTIMATOR Required for General Works Department. Capable of preparing quantities from drawings, etc. Training in pricing given if required. Opportunity for advancement. Permanent and pensionable position and bonus.—Write with full details to: The Director, WALTER LILLY & CO., Ltd., 8 St. Ann's-street, Westminster, S.W.1.

WALTER LAWRENCE & SON Ltd. Require an ASSISTANT SURVEYOR capable of measuring on site, assisting with valuations, final accounts, etc., on large contracts in the London area.—Write stating age, experience and salary required to Chief Surveyor, 31 Sun-street, E.C.2.

TWO YOUNG MEN Required in Surveying Department. Good opportunities for advancement.—Write in confidence, stating age, experience, past and present employers, to: Ref. LTW/BN5, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

ALFRED WOODLEY Ltd., of Amersham, Bucks., Require an ASSISTANT BUILDING SURVEYOR, with knowledge of estimating, drawing, site measuring, and planning for housing, minor works and jobbing. The position has a salary range of £650-£800 per annum and assistance will be provided with housing.—Applicants, about 25 years of age, with an intermediate surveying qualification, should apply in writing, stating age, qualifications and experience to B.A.S. (B.W.3), 82 New Cavendish-street, London, W.1.

ASSISTANT TO SENIOR SURVEYOR Required, site measuring, bonusing, final accounts. Good opportunity for keen young man.—Apply stating age, experience and salary required to J. M. HILL & SONS Ltd., Heather Park-drive, Wembley, Middx.

ASSISTANT SURVEYOR Required initially to assist with pre-planning of contracts in the Leeds area. Training will be given if necessary with excellent prospects of promotion in either management or surveying. The type of person envisaged is one around 20 and having a basic knowledge of building construction. A tradesman who has just completed his apprenticeship would be considered suitable.—Apply to Planning Department, MESSRS. WALTER G. BIRCH (HARROGATE), Ltd. Montpellier House, Harrogate.

ASSISTANT IN PROPERTY DEPARTMENT. Leading City Insurance Company have a vacancy for a male, age 20/26. Minimum educational standard G.C.E. (O) Level, 4 subjects, including English Language and Maths. Knowledge of building maintenance and interest in office planning necessary. Staff conditions first-class. Non-contributory pension and other staff schemes.—Applicants should write, giving experience and personal details and quoting Box 2764, "The Builder."

BUILDERS ASSISTANT SURVEYOR. Age 20-25 Required for small-medium Builders to train as ESTIMATOR. Pension scheme. Basic knowledge of construction, quantities and materials essential. Good prospects for keen young man studying for H.N.C.—Write full details: A. SAUNDERS & SON (BRENTWOOD) Ltd., Western-road, Brentwood, Essex

ASSISTANT SURVEYOR Required by East Dulwich Contractors, able to prepare quantities from drawings and estimate for small works. Holiday arrangements respected. Good prospects for right man. State age, experience and salary.—Box 2798, "The Builder."

BUILDING SURVEYOR'S ASSISTANT Required in North West Kent area. Aged 18-20, willing to learn all aspects of the trade and to assist buyer. Basic knowledge of Quantities and Building Materials essential. Good prospects for keen and conscientious worker in expanding business.—Write, stating age, experience and salary required, Box 2825, "The Builder."

ASSISTANT SURVEYORS

required for final accounts planning and contracts management sections of Contracts Surveying Department, age preferred 21–25 years. Applicants should have received a sound technical training in the industry and should possess, or be sitting for, the Higher National Certificate, or other equivalent examinations. The position offered is progressive with a rapidly expanding Company and will offer opportunity for promotion to senior managerial level within the Company. Write, giving details of training and experience to date and salary required to:—

Messrs. G. T. Crouch Ltd., Contracts Division, Kingston House, Stephenson Way, Three Bridges, Crawley, Sussex.

G. T. CROUCH LTD.

require

ASSISTANT BUYING AND ORDERING SURVEYORS

with previous experience in preparation of enquiries, preparing, scheduling and ordering materials from drawings and Bills of Quantities. The post has become available due to a re-organisation of the Company to establish a new fully comprehensive Materials Planning Department. For this reason, the post offered is permanent and progressive and offers excellent opportunity of advancement to young men displaying keenness, industry and initiative. Apply in writing, giving details of training and experience to date.

Divisional General Manager,

G. T. CROUCH LTD.,

Kingston House, Stephenson Way, Three Bridges, Crawley, Sussex.

JUNIORS

4-DAY WEEK opportunity for juniors and/or post-intermediate students to keep abreast with their school work and undertake interesting and varied office work, including Schools, Hospitals, and Public Houses. Good salary according to qualifications and experience. 5-day working and overtime when desired, luncheon vouchers.—Appointment by telephone ROYal 6216, STEWART HENDRY & SMITH, F/F.R.I.B.A., A.M.T.P.I., 90 Fenchurch-street, London, E.C.3.

TAKERS OFF

SENIOR AND JUNIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

TAKERS-OFF Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 916, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary, Overtime, Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

SIMON-CARVES LTD

require for their Building and Civil Engineering Department a

TAKER-OFF

Applicants must have at least two years' taking-off experience preferably in a professional office. Age range 25 to 35. This position is permanent and pensionable. Starting salary depending on experience and qualifications, will be in the range of £850 to £1,000 per annum. Good working conditions. Five day week. Three weeks' annual holiday.

Send brief relevant details to Staff & Training Division, SIMON-CARVES LTD., Cheadle Heath, Stockport, Cheshire, quoting Ref. XC.12.

TAKERS OFF
Senior and Assistant

required by London Contractors for Industrial and Domestic "Package Contracts". Interesting, permanent and progressive positions for those with initiative, adaptability and good constructional knowledge. These are responsible positions and only those with high ability will be considered. Write in confidence, giving details of past employers and experience, together with salaries, to

Box No. 2538 "The Builder"

SMALL professional firm in Westminster area Requires experienced **TAKER-OFF**, able to carry contracts through from taking-off to final account. 35-hour week.—Write, stating age, experience and salary required, to Box 2777, "The Builder."

EXPERIENCED TAKER-OFF Required for Quantity Surveyors in Victoria. Varied types of work. Good prospects.—Write, stating age, full details of experience and salary required, Box 2780, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (preferably qualified) Required for long-term appointment in branch Site Office in Berkshire by London Chartered Quantity Surveyors. House available. Subsistence allowance. Superannuation scheme. Five-day week.—Write full particulars to Box 2794, "The Builder."

TAKER-OFF Required by expanding, medium-size London Contractors. The vacancy provides an opportunity for a keen and energetic surveyor to join a progressive Company with outstanding prospects.—Box 2790, "The Builder."

TAKER-OFF (Final standard) Required by Chartered Civil Engineers for their Quantity Surveying Department. Applicants must be capable of preparing bills of quantities for building and civil engineering works under supervision of Chartered Quantity Surveyor. Five-day week. Pension scheme and L.Vs.—Apply stating age and experience to J. D. & D. M. WATSON, 67 Tufton-street, Westminster, London, S.W.1.

EXPERIENCED TAKER-OFF Required for responsible post with Chartered Quantity Surveyors. Telephone; VICtoria 5832 for appointment.

TAKER-OFF of Final Standard Required.—Write, giving particulars and when available, to ARTHUR J. WILLIS & THOMPSON, Chartered Quantity Surveyors, 41/42, Parliament-street, S.W.1.

TAKER-OFF of Intermediate to Final Standard Required.—Reply stating age, experience and salary required to REEKES & MANN, Chartered Surveyors, 23 Bloomsbury-square, London, W.C.1.

AUSTRALIA. Highly paid situations for TAKERS-OFF, see advertisement in Overseas Section.—Box 2665, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

TAKERS-OFF—Junior and Senior—Required by City Chartered Quantity Surveyors. Five-day week, pension scheme.—State age, experience and salary required to Box 2732, "The Builder."

TAKER-OFF Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 2750, "The Builder."

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 2733, "The Builder."

JUNIOR TAKER-OFF Required by Central London C.Q.S. L.V.'s. 5-day week. Salary £750-£1,000.—Box 2618, "The Builder."

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London. (A.R.I.C.S. preferred). Salary £750-£950. Pension Scheme; L.V.'s.—Please write stating age, experience and salary required to Box 2684, "The Builder."

LONDON FIRM OF CHARTERED QUANTITY SURVEYORS Require experienced TAKERS-OFF for long-term contracts in South Wales.—Please apply stating age, experience and salary required to Box 2685 "The Builder."

SENIOR TAKERS-OFF Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions including Luncheon Vouchers and pension scheme with good prospects offered to suitable applicants.—Apply, stating age, qualifications, academic background and salary required, to Box 959, "The Builder."

EXPERIENCED TAKER-OFF for permanent position in busy and varied City practice. Commencing salary not less than £1,200 per annum plus overtime.—Box 2629, "The Builder."

TAKER-OFF Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary £900 to £1,000 p.a.—Reply stating age and experience.

CHARTERED QUANTITY SURVEYOR (London, W.1). Requires competent TAKERS-OFF. Highest salary for suitable applicants. Varied and interesting contracts.—Write, stating age, experience and salary required, to Box 2219, "The Builder."

WORKERS UP

WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

APC

ATOMIC POWER CONSTRUCTIONS LIMITED

WORKER-UP

A vacancy has arisen in the London office of the above Company for a Worker-up. Although the duties will primarily consist of abstracting and billing, the successful candidate will have ample opportunity to enlarge his experience in contract price adjustment, cost analysis and variations, with a certain amount of junior taking-off.

Applications stating age, experience, etc., to:—

The Personnel Manager (Ref. B/104),
Atomic Power Constructions Limited,
P.O. Box No. 90, 28 Theobalds Road, W.C.1

EXPERIENCED WORKER-UP Required by London Quantity Surveyors. Salary £750-£1,000 p.a. according to experience.—Write, giving full particulars of qualifications, and age, to Box 954, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKERS-UP and intelligent JUNIORS, wishing to train for and qualify as Chartered Quantity Surveyors. Required in Bloomsbury Chartered Quantity Surveyor's Office. First-class working conditions, including Luncheon Vouchers, and opportunities for progressive training offered to suitable applicants.—Apply, stating age, experience, if any, academic background and salary required, to Box 971, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster.—State experience, age and salary required, Box 2582, "The Builder."

WORKERS-UP
required

for permanent progressive positions, with good prospects for advancement with consequent salary increases.

Write in first instance in confidence, giving details of past employers and experience and stating salary required.

Interviews out of office hours if necessary.

Box No. 2539 "The Builder"

WORKER-UP Required by Chartered Quantity Surveyors in Holborn Office.—Apply Box 948, "The Builder."

SENIOR WORKER-UP Required by City Quantity Surveyors. Permanent position. Commencing salary £750-£900 p.a. according to experience.—Write, with full details, to Box 2630, "The Builder."

WORKER-UP for permanent position in London office of Chartered Quantity Surveyors. Pension Scheme and L.Vs.—Please write stating age, experience and salary required to Box 2686, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors. Five-day week.—Write stating experience and salary required to Box 2691, "The Builder."

EXPERIENCED WORKER-UP Required for responsible post with Chartered Quantity Surveyors.—Telephone: VICtoria 5832 for appointment.

SENIOR WORKER-UP Required by firm of Chartered Quantity Surveyors at their London Office. Capability in assisting with straightforward site measuring an advantage. Consideration given to candidate having similar experience with contracting firm.—Write, particulars and salary, Box 2642, "The Builder."

JUNIOR WORKER UP

Required for Q.S. Section of Industrial Company. Pensionable and free lunches. Opportunity for learning taking off and measuring on site at a later stage. Please reply, stating age, experience and salary to:

Chief Surveyor,
Wiggins, Teape & Co. Ltd.,
Gateway House,
1, Watling Street,
London, E.C.4.

WORKERS-UP Required by City Chartered Quantity Surveyors. Pension scheme, overtime, five-day week. State age, experience and salary required to Box 2731, "The Builder."

WORKER-UP Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required, to Box 2751, "The Builder."

JUNIOR WORKER-UP Required, 5-day week.—Write stating age, experience and salary required to SYDNEY C. GORDON, Finsbury House, 22 Blomfield-street, London, E.C.2.

WORKERS-UP Required in Gray's Inn Quantity Surveyor's office. Permanent position with opportunities for rapid advancement.—Box 2752, "The Builder."

WORKER-UP Required by firm of Quantity Surveyors in Leicester. Progressive training with opportunities for site measuring. Five-day week.—Box 2742, "The Builder."

CHARTERED QUANTITY SURVEYORS Require experienced WORKER-UP in their Harlow, Essex, office. A good salary and house to rent would be available to suitable candidate who should have professional office experience. Interview in London if desired.—Box 2761, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors in Holborn. Age 20 to 25, with at least three years varied experience. Two weeks' holiday this Summer. Five-day week.—Reply, in longhand, giving particulars and salary required, to Box 2757, "The Builder."

CHARTERED Quantity Surveyors (near Victoria Station) have vacancy for experienced WORKER-UP anxious to start junior taking-off and site measuring. Luncheon vouchers. Five-day week.—Write full particulars to Box 2809, "The Builder."

WORKER-UP Required. Applicants should be experienced in abstracting and billing for re-measured and variation final accounts.—Please apply in writing stating age, experience and salary required to LAVENDER McMILLAN (CONTRS.), Ltd., 54 Cheam Common-road, Worcester-park, Surrey.

ENGINEERS

HEATING ENGINEERS and DRAUGHTSMEN required, Senior and Junior.—Write, giving age, experience and salary required, to Assistant Director, WILLIAM FREER Ltd., 49, Red Lion-street, Holborn, W.C.1.

ASSISTANT ENGINEER Required, aged 25-30. Must be conversant with Roads and Sewers to Private Housing Developments. This position is permanent, progressive, and superannuated.—Write, giving full details to M. J. JEANES (DEVELOPMENTS) Ltd., Oak End-way, Gerrards Cross, Bucks.

ENGINEER/SURVEYOR

of intermediate standard required for work on large scale housing development. Applicants must have both Drawing Office and Site experience. Possession of current driving licence essential.

Apply, Mr. Coote,
Taylor Woodrow Homes Ltd.
Western House, Ealing, W.5.

SITE ENGINEER

reqd. for setting out, levelling & general site work by a large South West London firm of Building & Civil Engineering Contractors. The position offered is a permanent one and a good salary will be paid to the candidate selected. Please write giving age, experience and present salary to Box 995 c/o Geo. Murray (Advg.) Ltd., Columbia Hse., Aldwych, W.C.2.

SITE ENGINEERS

Experienced in setting out and construction of foundations, brick and reinforced concrete frame structure and external works, are required for large-scale contracts in Southampton Area. The position is progressive and will offer permanent position and advancement with rapidly expanding Company to young men showing industry and initiative. Apply in writing, giving details of training, experience to:—

Divisional General Manager,
G. T. CROUCH LTD.,
Kingston House, Stephenson Way,
Three Bridges, Crawley, Sussex.

CIVIL ENGINEERING

There is a vacancy in the Roads and Sewers Department of our Homes Division for a Civil Engineer (Graduate preferred).

This position will suit an active young man who wants to join a cheerful but determined team engaged in building well designed homes and the attendant estate works as quickly as possible.

This Company's outlook is extremely progressive, providing excellent scope for advancement. Homes Division is a very virile part of the Group.

We offer a generous salary, firm's car and, if necessary, assistance in accommodation. The job is, of course, pensionable.

If you are interested, apply to me personally, in writing.

Roy Davies,
Director,
C. Bryant & Son Ltd.,
Small Heath,
Birmingham, 10.

ENGINEERS

A PLANNING ENGINEER, capable of road and sewer design and drawing up town planning application plans, is Required immediately for our Leeds Speculative Building Division.—Please call or write, giving details of experience, SIR LINDSAY PARKINSON & CO., Ltd., Northern Area Office, Templenewsam, Leeds 15.

RESIDENT ENGINEER (A.M.I.Struct.E.) Required immediately for block of multi-storey flats for Portsmouth Corporation. To supervise foundations (piling) and erection of precast and prestressed frame and cladding. Approximately 10 months but possibility of extension. Salary £1,000 p.a.—Apply in writing stating age, qualifications and experience to FELIX J. SAMUELY AND PARTNERS 231-233 Gower-street, N.W.1.

SITE ENGINEER urgently Required for setting-out and other duties in connection with estate development in the South of England. Considerable travelling will be involved and a car or car allowance will be provided. This is a permanent, pensionable position with prospects, salary commensurate with experience.—Write in confidence stating age, experience, past and present employers, to Ref. LTW/BN3, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

W. & C. FRENCH Ltd. urgently Require experienced ENGINEERS, preferably qualified, for Building and Civil Engineering contracts in the Home Counties. Good prospects for suitable applicants.—Apply, in writing, stating age, experience and salary required, to Personnel Manager, 50, Epping New-road, Buckhurst-hill, Essex, quoting reference number 167.

PLANT ENGINEER Required by old-established Building and Civil Engineering Contractors in South-West. Applicants must have had similar previous experience and be capable of organising and controlling the maintenance, repair, erection and movement of modern Diesel and electrical plant, including Tower Cranes. The position is permanent and pensionable.—Apply stating age, details of previous experience and salary required to Box 2796, "The Builder."

CUBITTS

Applications are invited from suitably qualified men for employment in the

PLANNING SECTION

of the Company's main Building Department.

The work includes detailed time and method operational planning and budgetary control of expenditure on labour, plant and materials. The appointments offer excellent opportunities in a progressive organisation to men seeking advancement. Superannuation and other staff benefit schemes are in operation.

Full details of training and experience should be sent to:—

The Personnel Manager (B.5466)
No. 1 Queen Anne's Gate,
London, S.W.1.

ESTIMATORS

ESTIMATORS SHOP FITTING Required. Experience of first-class workmanship. Excellent prospects for the right men.—Apply stating qualifications, Box 2708, "The Builder."

ESTIMATOR/SURVEYOR Required by London Building Contractors. Experienced from enquiry to final account. Permanent position.—Apply in writing, giving experience, age and salary required, to RUSSELL BROTHERS (PADDINGTON), Ltd., 421 Harrow-road, London, W.10.

ESTIMATOR Required by Builder, Beckenham. Must be capable man used to tendering for general building works. Sound position for sound man.—Box 925, "The Builder."

ESTIMATOR Required by FORD & WALTON Ltd. Must be fully experienced and have a sound knowledge of modern building methods. The post is at Stratford, E.15, until January, 1961, when the Company is moving to new headquarters being built at Wembley Park.—Apply stating age, experience and salary required to Personnel Manager, FORD & WALTON Ltd., Walton House, Warton-road, London, E.15.

ESTIMATORS AND ASSISTANT ESTIMATORS Required for medium-sized Builders in East London, competent to deal with all types of work between £2,000-£50,000. Good opportunity for advancement. Bonus and Pension Schemes in operation.—Write stating age, experience and salary required, to Box 2553, "The Builder."

ESTIMATOR/SURVEYORS with good all round experience and preferably accustomed to managing their own contracts, who wish to join a long-established company with a progressive outlook, are invited to fill the several vacancies arising in our current expansion programme. Good terms for permanent employment and exceptional prospects for competent men.—Please send full particulars in confidence, stating present employers, General Manager, KEIL & VEVERS, Ltd., Poplar Works, Frimley-road, Camberley, Surrey.

SENIOR ESTIMATOR/SURVEYOR Required. Applicants should be experienced in estimating for all classes of building work and capable of pricing small contracts from own dimensions. A sound knowledge of quantity surveying, contract administration and final accounts is essential. The position is permanent.—Write giving age, details of training, experience and salary expected, to THOMAS & EDGE, Ltd., 52 Maybean-street, Woolwich, S.E.18.

BUILDING ESTIMATOR Required for large City Quantity Surveying firm. Age 30-35. Must be experienced in negotiation. Salary £1,200 p.a. plus overtime.—Box 2667, "The Builder."

ESTIMATOR-SURVEYOR Required, able to take-off own quantities from drawings, prepare estimates and supervise jobs of varied kinds; in general works department of KILLBY & GAYFORD, Ltd., 87 Worship-street, E.C.2.—Write Secretary with full details of age, experience and salary.

ESTIMATOR Required for jobbing builder in Bedfordshire. Able to deal with the preparation of accounts, and willing to assist with the general office routine when necessary.—State salary required to Box 2638, "The Builder."

SENIOR ESTIMATOR SURVEYOR Required Berkshire to deal with contracts ranging from £20,000 to £200,000 from enquiry to final account. Responsible post.—Reply, giving full details of experience and salary to Box 2646, "The Builder."

ESTIMATOR/SUPERVISOR Required, used to alterations and general building work. Capable of preparing own specifications and plans for smaller works.—Write stating age and salary required to CHAMBERS & CO., Builders, 11 Bury Fields, Guildford.

JUNIOR ESTIMATOR SURVEYOR Required.—Reply stating age, experience and salary required to WILLIAM WILLETT (BUILDERS & DECORATORS), Ltd., Sloane-square, W.1.

ESTIMATOR/ SUPERVISOR

required for Small Works Department of West End Builders specialising in good class alterations and decorations. Contracts up to £15,000.

Write, stating age, experience and salary to

Box 2490, "The Builder"

SENIOR ESTIMATORS

National Contractors require first class applicants with wide estimating experience, particularly with large contracts, modern plant and construction methods. Knowledge of detailed price build up essential. Good salary for right men. Pension Scheme. Apply:

Box No. 2587, "The Builder"

ESTIMATOR/SURVEYOR

Excellent prospects and permanent position, due to recent reorganisation of long established firm of Building Contractors in N.W. London, for man aged 25-40.

Applicant would undertake small and medium sized contracts and assist with larger contracts.

Write giving details of age, experience and salary required to :—

Box No. 2613 "The Builder"

ESTIMATOR Required for small works department operating from Greenford, Middlesex, carrying out maintenance work and improvements to the group's properties including shops, departmental stores, factories, warehouses, etc. Holiday arrangements honoured.—Write for full information to Box B 301, L.P.E., Romano House, 399-401 Strand, London, W.C.2.

LESLIE & CO LTD

require in London Office

ESTIMATOR

Due to an expansion programme the Company require a young Estimator who has a good knowledge of building construction and experience in estimating for smaller contracts. This position offers opportunity for a keen person to expand his ability by being trained to estimate for major contracts using his own initiative and working under minimum supervision.

The Company operates on a large scale throughout the country and has Branch Offices in Scotland, Northern England, Midlands and the South. This post carries an attractive salary, good annual bonus and non-contributory pension scheme.

Apply in confidence to the **Chief Estimator, Peel Street, Kensington, London, W.8.**

TAYLOR WOODROW CONSTRUCTION LIMITED

require experienced building and civil engineering

ESTIMATORS

Applicants must be experienced in large scale works. Pension Scheme. Excellent opportunities.

Write giving brief details of experience and present employment, which will be treated in strict confidence to:

PERSONNEL MANAGER, 345 RUISLIP ROAD, SOUTHALL, MIDDLESEX.

ESTIMATOR/SURVEYOR

with up-to-date knowledge of present day competitive tendering in the London area required by well known London contractors. Permanent and pensionable position for suitable applicant.

Apply in confidence, giving details of age, past experience, and salary required to Box No. E.S. 3307.

A. K. Advtg., 212a Shaftesbury Ave., W.C.2.

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London

L.I.O.B. an advantage. Pension scheme. Apply in writing giving details to

Box No. 919, "The Builder"

ASSISTANT ESTIMATOR AND SUPERVISOR required by Decorative Contractors, engaged in wide range of commercial painting works and decorative Contracts. Must have first-class practical experience in all branches of the trade, knowledge of traditional and modern colour schemes, able to drive and keen to accept executive responsibility in the future. Age not over 35. Company's Offices situated in S.E. London.—Write immediately with personal details, Box 2715 "The Builder."

KEEN YOUNG MAN Required as ASSISTANT ESTIMATOR/SURVEYOR for small contracts and jobbing work. Some knowledge and experience messuring and quantities essential. Excellent opportunity to gain varied experience and carry responsibility. Position is permanent, progressive and pensionable.—Write full particulars: CHARLES R. PRICE, 252 Bishopsgate, E.C.2.

JOINERY ESTIMATOR, for high quality shop. Must be able to work on own initiative.—'Phone SHE 2332.

BUILDERS ESTIMATING CLERK Required, used to alterations, decorations and general jobbing. Able to prepare final accounts and assist in office, S.W.15 district.—Write, stating experience and salary required. Box 2716 "The Builder."

GENERAL ASSISTANT Required in office of small and progressive builders to assist generally and particularly with estimating. Contracts up to £20,000. Sound position for sound man, with good prospects. —LAUSTAN CONSTRUCTION CO., Ltd., 55 Wellesley Road, Chiswick, W.4.

Painting Contractors Require Estimator

Large and well-established Painting Contractors in North-West London area Require experienced and energetic ESTIMATOR used to industrial work and who has the desire and ability to progress. Age 25/40 preferred. Excellent salary according to experience, plus twice annual bonus on results. Company car supplied and personal use allowed. Present holiday arrangements will be honoured. Applications, which should give full details of past experience, will be treated in strict confidence.—Replies to Box 2835, "The Builder."

ESTIMATOR Required by Building Contractor in Victoria. Must be fully experienced to price all types of work up to £150,000. Five-day week, permanent position, pension scheme.—Apply, stating age, qualifications, experience and salary expected, to Box 2765, "The Builder."

ESTIMATOR Required for Small Works Department. Must be fully experienced in Site Measurement all Trades, taking-off and pricing from Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply in writing, stating age, experience and salary required, to GRACE & MARSH Ltd., New Bridge Works, Waddon, Croydon.

BUILDERS' ESTIMATOR Required. Must be fully experienced in estimating, measuring to final accounts. Apply, in confidence, giving details of experience.—STANLEY F. WASS, Moreton-in-Marsh, Glos. Tel. Moreton-in-Marsh 27.

ESTIMATOR/SURVEYOR for contracts to £50,000. Good prospects, permanent staff. Aldgate area. Box 2815, "The Builder."

ESTIMATOR/SURVEYOR Required for old-established East London Builders for contracts up to £70,000. Age 25-30.—Please write giving full details of age, experience and salary required to Box 2810, "The Builder."

ESTIMATOR/SURVEYOR Required by West London Building Contractors, must be fully experienced in estimating for varied contracts up to £150,000.—Write giving full particulars of age, experience and salary required to Box 2803, "The Builder."

JUNIOR ESTIMATOR AND ASSISTANT TO MANAGER Required immediately by small expanding Building Contractors. Progressive position.—Apply J. FRANKS (GUILDFORD) Ltd., 35 Sydenham-road, Guildford.

ESTIMATOR/SURVEYOR Required by West London Builders. Should be experienced in measuring final accounts and estimating up to £100,000.—Box 2789, "The Builder."

ESTIMATOR SURVEYOR Required for work-up to £50,000. London area.—WALTER GLADDING & CO., Ltd BIS 9775.

SENIOR ESTIMATOR Required by Building Contractors. Experienced in all types of construction, permanent and progressive position, good salary, pension scheme.—Apply, in writing, giving details of age, experience and salary required, to: Managing Director, A. E. SYMES, Ltd., 236-252, High-street, Stratford London, E.15.

ESTIMATOR with general experience Required for Roofing Contractor in South-West London.—Box 2735, "The Builder."

ESTIMATOR, experienced in pricing conversions, alteration and maintenance works. Required for medium-sized builders in Paddington. Permanent position and good prospects consequent upon a policy of orderly expansion.—Apply stating age, experience and salary required, to Box 949, "The Builder."

MANAGERS

ESTATE DEVELOPERS, London and Home Counties. Require experienced man, with knowledge of Estate management, capable of selling and supervising the sales of new properties. Attendance on Building sites essential week-ends and National Holidays. Good prospects. Non-contributory Pension scheme.—Write full particulars experience, age and salary required, to Box 2616, "The Builder."

BUILDER'S Small Works and Jobbing MANAGER Required to estimate for and supervise work of Department with turnover of £50,000, employing all trades. Previous experience in similar capacity essential. Age limit 45 years.—Apply in writing to E. S. GATES, Ltd., Chalfont Station-road, Amersham, Bucks, with full particulars and present employers.

DEPOT MANAGER Required by Scaffolding Contractors. Experienced man to control transport and materials and depot staff. Superannuation scheme.—Apply Box 2675 "The Builder."

IF YOU KNOW SLATING AND TILING apply for the position of ASSISTANT TO CONTRACTS MANAGER.—Write Box 2737, "The Builder."

"If only I had the chance . . .'

If your ambition is to be a Building Manager in a large firm, here's your chance. Continuing expansion of West London firm of estate developers calls for another experienced Building Manager who knows he can organise the erection of hundreds of residential units within the course of a busy year. The man we want has the qualities of St. George—courage, chivalry, charm and the knack of killing dragons. (An experienced man will know what we mean!) A horse, that is, a car will be supplied for getting around and enough salary to keep the armour shining bright. Future prospects are worthy of a patron saint, plus a pension. Details of experience during the past two decades will be treated confidentially and are eagerly awaited by the advertisers.

Write to

Box 2662 "The Builder."

BUILDING MANAGER

Assistant to Building Manager required by Mowlem (Scotland) Ltd., on a Nuclear Generating Station contract in Ayrshire.

Applicants should have had several years' site experience in similar capacity dealing with subcontractors and interpretation of specifications and drawings, an H.N.C. or L.I.O.B. qualification would be an advantage but not essential.

Salary in accordance with age and experience, a subsistance allowance will be paid where applicable, and an invitation to the company's superannuation scheme will follow after a probationary period.

Write giving full particulars to:

The Agent,
MOWLEM (SCOTLAND) LTD.,
Hunterston Nuclear Generating Station,
West Kilbride, Ayrshire.

ASSISTANT TO MANAGING DIRECTOR

is required by a nationally known and rapidly growing firm of contractors, with headquarters in exceptionally agreeable country in Central England, who use both new and traditional methods in the erection of industrial buildings.

Whilst the predominant part of his experience will probably be as Senior Surveyor in a well organised building firm, he must also be a man whose practical experience from the bottom up will enable him to be at home with all types of professional and business men associated with the building industry.

Since he must meet building owners, he will be a man of first-class personality and address and he will be particularly well-versed in building industry accountancy.

The ideal candidate will be 35 years of age and will receive a salary of £1,750 per annum, although neither of these figures must be regarded as rigid.

There is a contributory pension scheme, a car will be provided, and the possibility of help with re-housing is not to be ruled out.

Initial written applications in strictest confidence, quoting reference R.585, should be sent to:

SENIOR STAFF CONSULTANTS LIMITED,
7, Cork Street, London, W.1.

CONTRACTS MANAGER

required due to progressive growth by Walter G. Birch (Harrogate) Ltd. for their Wakefield branch which is a self-contained operational unit. The successful candidate will be directly responsible for all the work in this area, which varies between minor works and contracts up to £225,000, and should have had managerial experience of not less than three years in a similar capacity. A knowledge of modern management techniques as effected by planning, work study, etc. is necessary and the candidate should be in the age group 35—45. The post is a responsible one carrying good prospects and a pension and insurance scheme is in operation.

Apply in the first instance, stating age, qualifications, experience and salary required to **B.A.S., 82, New Cavendish Street, London, W.1.**

Experienced WORKS MANAGER

required by well-known London contractors in their small but highly mechanised Joinery Works. Only those applicants who have had the fullest experience in estimating for all types of joinery handled in the industry, and who are thoroughly conversant with modern methods of management, progressing, incentive schemes, etc., should apply, in strict confidence, to the Managing Director,

Box No. 2787, "The Builder".

CONTRACTS MANAGER

required to control Private Enterprise Building in the Worthing—Eastbourne area. This is a progressive post which could develop into a Branch Managership. Application in writing giving education, experience and salaries earned to :

Box 2706 'The Builder'

CONTRACTS MANAGER

required for well established and expanding firm of London Contractors. Must be experienced in the control of a group of contracts ranging in value from about £10,000 to £200,000. Experience as builders surveyor essential. It is intended that this important position will be progressive, permanent and pensionable. An experienced assistant contracts manager might be considered with a view to promotion after proving period. Only candidates of first class ability and good bearing should apply. Existing holiday commitments would be accepted. Apply in writin stating age and experience to **COURTENEY & FAIRBAIRN LTD., 377, Albany Road, Camberwell, S.E.5.**

MANAGER/SURVEYOR for Painting and Decorating Department. Applicants must have practical experience with the trade and be capable of estimating. Permanent situation, Pension scheme.—Write, giving full details in confidence, to C. H. PEARCE & SONS, Ltd., Westbury Hill, Westbury-on-Trym, Bristol.

MANAGER. A firm of National Contractors operating in the S.W.1 area Require a thoroughly competent MANAGER to take charge of their Shuttering and Formwork Section.—Write, in first instance, giving fullest particulars, to The Managing Director, Box 2833, "The Builder."

BUILDING MANAGER Required for medium-sized building firm located London area. Able to estimate from drawings and specifications and deal with work from enquiry stage to final account. Ability to negotiate contracts and supervise and control all construction work essential. Appointment to board may be available after probationary period. Apply giving age, full details of experience and salary required.—Box 2823, "The Builder."

A MAINTENANCE MANAGER Required to deal with all aspects of maintenance on several dwellings, both old and new. This is a permanent, pensionable position, salary commensurate with ability and experience. A car or car allowance will be provided.—Write in confidence, stating age, experience, past and present employers, to Ref. LTW/BN3, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

PLANNING OFFICER. Reinforced Concrete Contractors wish to make above appointment in their expanding organisation, to be responsible for completely detailed planning of contracts and co-ordination of all departments. Considerable experience of contract management, estimating and office procedure required.—Write, giving details of experience, age, salary required, to Box 2728, "The Builder."

CONTRACTS MANAGER. Expanding firm of Reinforced Concrete Specialists Require CONTRACTS MANAGER to take charge of outside construction. Considerable experience of single- and multi-storey in situ and precast frame construction. Age limit 45. Excellent salary, conditions and prospects, pension and bonus schemes.—Write giving details of age, experience, salary expected, to Box 2729, "The Builder."

PROGRESSIVE BUILDING CONTRACTORS Require MANAGER for small works department in Berkshire. Applicant with similar experience would be an advantage. The following qualifications essential: Estimating, programming of work, organising and control of labour, accustomed to use of modern methods of accountancy and office equipment. Car driver. Age not over 45 years.—Apply, in writing, stating age, salary required, and when free, to BOYD & MURLEY, Ltd., 87, London-street, Reading.

SHOP FITTERS & JOINERY MANUFACTURERS (Wiltshire) Require JUNIOR EXECUTIVE for estimating, site supervision, etc. Excellent opportunity for keen person. Evangelical Christian preferred.—Box 2772, "The Builder."

PRIVATE SPECULATORS, with large resources, Require a first-class young man well trained in estate development and house building for sale. We are looking for the highest calibre of man and are prepared to pay a top salary to the right person. Applicants must be able to develop properties already acquired abroad and must be prepared to reside abroad. This is a unique and first-class opportunity.—Write, giving full particulars of education, experience, salaries earned, age, etc., to Box A.616, c/o Central News, Ltd., Pemberton House, East Harding-street, London, E.C.4.

CLERKS OF WORKS

CLERK OF WORKS/RESIDENT ENGINEER, Required for 400,000 sq. ft. factory project, Gillingham, Kent. Contract expected to extend from June, 1960, to April, 1961. This post calls for a first-class man with wide experience in building.—Write stating age, experience and salary required, to FARMER AND DARK, Chartered Architects, Romney House, Tufton-street, S.W.1. (Tel.: ABBey 6311.)

ASSISTANT CLERK OF WORKS Required for 400,000 sq. ft. factory project Gillingham, Kent. Contract expected to extend from June, 1960, to April, 1961.—Write stating age, experience and salary required to FARMER AND DARK, Chartered Architects, Romney House, Tufton-street, S.W.1. (Tel.: ABBey 6311.)

CLERK OF WORKS

required for the extension and reconstruction of an important retail shop building in Taunton, Somerset. Probable duration of contract 2½ years.

Only men experienced in substantial size contracts, including heavy foundation works, reinforced concrete, and structural alterations should apply.

Please state age, experience and salary required.

George Baines & Syborn, A.R.I.B.A.,
121, Victoria Street,
Westminster, London, S.W.1.

EXPERIENCED, reliable CLERK OF WORKS urgently Required, commence work preferably now or within 6 weeks. Salary according qualifications, experience, up to £1,250. Contract, comprising 15-storey block offices, shops, etc., at Crown Site, Morden, to last about 21 months.—Apply to A. GREEN, A.R.I.B.A., 23 Fitzroy-street, W.1. LAN 5051.

ARCHITECT'S Office in City Requires CLERK OF WORKS for supervision of new work, also alterations and maintenance. Should not be more than 45 years old and preference given to men qualified as M.I.C.W.—Write, stating experience, age and salary required, Box 2648, "The Builder."

SUPERINTENDING CLERK OF WORKS Required for multi million skyscraper block in Manchester. Salary and expenses £1,750 per annum.—Apply, in writing, giving full particulars and experience, to: MESSRS. COVELL & MATTHEWS, 34 Sackville-street, W.1.

CLERK OF WORKS Required for industrial building—reinforced concrete with brick and stone cladding—at Bexleyheath, Kent.—Applicants should send details of experience, references and salary required to ANSELL & BAILEY, O.B.E., F.R.I.B.A., Chartered Architects, 12, Gray's Inn-square, W.C.1.

IND COOPE LIMITED, National Brewers, Require immediately a CLERK OF WORKS on Contract at Wrexham for major Brewery construction and road layout. Experience in supervision of large day-work contracts essential. Probable duration twelve months.—Reply, stating salary required, to Group Personnel Manager, IND COOPE Ltd., Station-street, Burton-on-Trent.

ALL-ROUND, practical CLERK OF WORKS wanted to take charge of maintenance team in private hospital in London area. Salary according to experience and qualifications, but not less than £600 per annum plus free detached house.—Apply with full particulars to Secretary, The Priors, Roehampton, S.W.15.

REPRESENTATIVES

ROBERTS ADLARD & CO., Ltd., require for the London Area a REPRESENTATIVE having an existing connection with Architects and Surveyors and a specialised knowledge in some or all of the following: Slating, tiling, asbestos and aluminium roofing, over and under purlin linings.—State age, qualifications and salary required, to Secretary, Tweedy-road, Bromley, Kent.

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

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EAST MIDLANDS

Essential Qualifications. A sound knowledge of Reinforced Concrete in Building; selling experience; good education; enthusiasm.

Advantages—but not essential. Engineering or architectural degree; connections in East Midlands.

This is a permanent appointment in an expanding organisation. The salary, which is substantial, will depend upon the qualifications of the applicant. Commission is paid in addition; excellent pension scheme; car provided.

Applications (which will be treated in strictest confidence), should be sent giving fullest particulars, to Concrete Limited, 16 Northumberland Avenue, London, W.C.2.

"Concrete Limited are the largest structural precast concrete specialists in the world"

CHEMICAL PRODUCTS FOR THE BUILDING TRADE. Old-established Manufacturers adopting expanding sales policy offer SOLE REPRESENTATION on excellent commission terms to live Sales Agents operating in either the Norwich area or Manchester and district.—Write fully to Box 2758, "The Builder."

BUYERS

ASSISTANT BUYER Required by Building Contractors in South-West outer London. Must be able to prepare schedules from drawings and Bills of Quantities.—Write stating age, experience and salary required to LAVENDER, McMILLAN (CONTRACTORS) Ltd., 54 Cheam Common-road, Worcester Park, Surrey.

BUYER'S ASSISTANT Required. Knowledge of building trade essential, previous buying experience an advantage. Good salary according to previous experience, capabilities, etc.—Applications, in writing, to FASSNIDGE SON & NORRIS, Ltd., High-street, Uxbridge, Middlesex.

BUILDERS ASSISTANTS

EXPERIENCED MAN Required for preparing material schedules, for ordering purposes, and progressing same to sites. This is a permanent, pensionable position, salary commensurate with experience.—Write in confidence, stating age, experience, past and present employers, to Ref. LTW/BN6, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

BUILDING CONTRACT PROGRESSOR

A vacancy has arisen in our Building Division Sales Office for a young man aged 25/30 to progress Contracts within the Building Industry.

This is an interesting position for a man with lively mind and a good knowledge of the Building Trade is essential.

Please apply, in writing, giving full details of career to:—

Personnel Manager,
FABLON LIMITED,
75, Grosvenor-street,
London, W.1.

REQUIRED by well-known London contractor, a TECHNICAL ASSISTANT to investigate and report on new developments in plant, materials and new techniques in building. Essential qualities: a capacity for hard work, and sound knowledge of building materials.—Reply giving past experience and salary required to Box 2740, "The Builder."

HUMPHREYS LTD.

Building and Civil Engineering Contractors
199, Knightsbridge, S.W.7

require an

ASSISTANT

age 25 to 30 in their **TECHNICAL SERVICES DEPARTMENT** for Planning and Programming and preparing working drawings, schedules, etc., for all types of Building Contracts. Sound knowledge of building construction essential and must be good draughtsman. Pension scheme. Apply, giving details of age, experience, etc., to Personnel Dept.

AGENTS

AGENTS AND GENERAL FOREMEN

WATES LIMITED

In view of continued expansion we are interested in interviewing high-grade Agents and General Foremen, with a view to employment on interesting City and West End work. Must have proven record of managing large contracts, comprising multi-storey, reinforced concrete construction both in situ and precast.

Pre-planning, Work Study and Cost Control experience essential.

Write fully, stating age, description and value of previous contracts, positions held and salary required to: Personnel Manager, 1258/60, London Road, Norbury, S.W.16.

WILSON LOVATT & SONS LTD.

16 Grosvenor Crescent, S.W.1.
Invite applications from

SENIOR SITE AGENTS

for Buildings Contracts of reinforced concrete construction exceeding £1,000,000 in value.

Applicants should state experience, age and initial salary required.

NATIONAL CONTRACTORS

require

AGENTS and GENERAL FOREMEN

Applications are invited for Staff appointment of Agents and General Foremen for London and South West England.
Applicants should be fully experienced.
Apply in writing, giving details of experience, age, trade and salary required to:—

Box 2791, "The Builder"

AGENT Required for Cheltenham.—Apply, LAVENDER McMILLAN (CONTRACTORS), Ltd., 54, Cheam Common-road, Worcester Park, Surrey.

FIRST-CLASS CONTRACTOR'S AGENTS AND GENERAL FOREMEN Required by a rapidly expanding firm of National Contractors, operating mainly in London and the Home Counties, for contracts up to £1,500,000.—Brief details in confidence to Box 2649 "The Builder."

AGENT

required to take complete responsibility for large scale contracts of approximately £1,000,000 value in Southampton area. Applicants will be required to have held a similar position with a Company employing modern management methods and the applicant should be well experienced in pre-planning and programme methods of administration. The position offered is with a rapidly expanding Company, offering potentia promotion to Executive level after a reasonable proving period. The position will offer attractive salary and bonus to the successful applicant. Write in confidence, outlining experience to date, details of management training and salary required to:

Box No. 2788, "The Builder"

DRABBLE CONSTRUCTION LTD.

SITE AGENTS

are required for housing contracts recently acquired in Southern Counties.

Only men with the best experience and capable of producing a high output of the best quality should apply. The salary paid will be generous but according to qualifications and experience.

Apply: **Drabble Construction Ltd., 11 Station Road, Marlow, Bucks.**

AREA AGENT/ENGINEER Required by Contractors to be responsible for roads, sewers, and site preparation on large-scale developments and other civil engineering works in South Wales. This is a senior appointment and is permanent and pensionable, salary commensurate with ability and experience.—Write in confidence, stating age, experience, past and present employers, to: Ref. LTW/BN1, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, London, N.W.6.

CIVIL ENGINEERS

Vacancies exist on major Civil Engineering and Industrial Building Projects for experienced

AGENTS AND SUB-AGENTS SENIOR AND JUNIOR ASSISTANTS

FOR PLANNING AND SITE WORK

Positions are available in various locations throughout Great Britain which offer excellent prospects and opportunity for permanency and promotion. Pension Scheme and Life Insurance.
Apply in confidence giving age, details of education, training, qualifications and experience with indication of salary required to:—

Personnel Manager,
ROBERT M. DOUGLAS (Contractors) LTD.,
395, GEORGE ROAD, ERDINGTON, BIRMINGHAM 23

KYLE, STEWART (CONTRACTORS) LTD.

require

AGENTS AND GENERAL FOREMEN

in London and Home Counties for contracts between £100,000 and £500,000 in value.

Must be experienced in all aspects of the trade, possess drive and initiative and up-to-date knowledge of mechanical plant management.

Participation in Company's Bonus and Pension Schemes. Salary four figures offered to successful applicants who will have opportunity for advancement to the position of Contracts Manager.

Apply in writing, stating experience and salary required to:

Managing Director, Kyle, Stewart (Contractors) Ltd., Ardshiel House, Empire Way, Wembley, Middlesex

CUBITTS

Applications are invited from:—

AGENTS AND GENERAL FOREMEN

well experienced in control of general heavy civil engineering construction, and from

SENIOR AND JUNIOR CIVIL ENGINEERS

for work on site or at Head Office.

Please send full details, in confidence, to:—

Personnel Manager (B.5451)
HOLLAND & HANNEN and CUBITTS
(Great Britain) Ltd.
1, Queen Anne's Gate,
London, S.W.1.

SUB-AGENT Required for road and sewer works in Sussex. A permanent, pensionable, progressive post awaits a man with a good grounding in this type of work. The successful applicant will be expected to live in the area and transport will be provided to take him round his work. This is a progressive, expanding firm and there are good prospects for someone with drive and initiative.—Apply in writing, giving full details of training and experience to GERALD TOYNBEE (CONTRACTORS), Ltd., Barnham, Nr. Bognor Regis, Sussex. Tel.: Eastergate 3323.

ENGINEER/AGENT for estate roads and sewers Required by rapidly expanding company. The position carries a good salary and is a pensionable staff appointment. Applicants must be fully experienced and able to work with minimum supervision. —Apply in writing giving full details of previous experience to GABLE CONSTRUCTION COMPANY, 54 Garratt-lane, S.W.18.

SITE AGENTS

Applications are invited from AGENTS fully experienced in carrying out large building contracts of reinforced concrete construction. Write in confidence, stating age, experience and salary required to:

Personnel Manager,
FORD & WALTON,
Walton House, Warton Road,
London, E.15

FOREMEN & SUPERVISORS

GENERAL FOREMAN in full charge of good-class work and experience with modern methods and costs. Good conditions and pension scheme.—Please write full particulars and when disengaged PATMAN & FOTHERINGHAM Ltd., 15 Islington Park-street, London, N.1.

Formerly the Incorporated Clerk of Works Association of Great Britain

FOUNDED 1882

THE

INSTITUTE'S EXAMINATIONS

will be held 24th–28th May, 1960 in London, Edinburgh, Belfast and Manchester.

Forms of entry from The Secretary, Liverpool House, 15/17 Eldon Street, E.C.2.

GENERAL FOREMAN Required immediately for Flats Contract in Reading. Must be good organiser able to handle sub-contract and own labour.—Apply giving full particulars of age, experience and salary required to FRANCIS BROS. Ltd., 11 Armour-road, Tilehurst, Reading, Berks.

GENERAL FOREMAN for School Extension (approximately £28,000) E. London.—H. C. HORSWILL Ltd., 182 Green-street, E.7. GRA 4031.

EXPERIENCED GENERAL FOREMAN Wanted for new contract. Permanency right man. —Apply in writing only stating age, trade, experience and salary to W. J. MITCHELL & SON, Ltd., Dulwich Village, S.E.21.

GENERAL FOREMEN Required, fully experienced all trades, able to set out and use dumpy level. Permanent if suitable. Salary by agreement. Bonus prospects.—Apply in writing, giving details of experience and age, to POOLMAN (BUILDERS) Ltd., Sutherland House, Edgware-road, N.W.9.

PAINTING SUPERVISOR Required, experienced in School and other painting contracts in London area. Able to estimate and measure. Good handler of men and able to drive.—Box 2569, "The Builder."

GENERAL FOREMAN Required for the Bristol area and West Country, experienced in all aspects of building. Good prospects and bonus.—Reply giving full particulars to W. E. CHALKE & CO., Ltd., Croft House, Langford-road, Weston-super-Mare.

PAINTING: Building Contractors in Midland Town Require experienced man to take complete charge of their painting contracts. Will be responsible for pricing, progressing and final bills. Only experienced persons need apply. References required.—Full details including salary required to Box 2650, "The Builder."

FOREMAN Required, small Extension Contract to Existing School, Feltham area.—Write full details, age, experience, trade, salary required, to Box 2651, "The Builder."

ASSISTANT FOREMAN Required in Bristol area.—Write giving qualifications and salary required, Box 2677, "The Builder."

GENERAL FOREMAN Required in 4-5 weeks for contracts value £10,000-£50,000. South London area. Experience reinforced concrete work preferred. —Replies giving full details of experience and salary required to WILLIAM WILLETT (BUILDERS & DECORATORS) Ltd., Sloane-square, S.W.1.

GENERAL FOREMAN Required for Hastings area. Must be fully conversant with large housing schemes, roads and sewers. Sound knowledge of instrument work and all trades required.—Apply in writing to PROWTING Ltd., Bury-street, Ruislip, Middlesex, stating age, experience and salary required.—Box 2659, "The Builder."

GENERAL FOREMAN Required for Worthing area. Must be fully conversant with large housing schemes, roads and sewers. Sound knowledge of instrument work and all trades required.—Apply in writing to PROWTING Ltd., Bury-street, Ruislip, Middlesex, stating age, experience and salary required.—Box 2660, "The Builder."

GENERAL FOREMAN (C. and J. preferred), experienced in good class work Required for new church. State age, experience and salary required. —F. & H. F. HIGGS Ltd., 2 Herne Hill-road, S.E.24.

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BOGNOR REGIS

SENIOR GENERAL FOREMAN

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Only men with experience of restricted sites, basement excavation, underpinning, shoring, and able to produce good quality work to a tight programme need apply.

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SENIOR GENERAL FOREMEN
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GENERAL FOREMAN Required by large London builders for work in London area. Must have had first-class all-round experience and knowledge of new and alteration work. The position is permanent to a man of ability and carries participation in Pension scheme. When replying, state age, experience and salary required, to Box 2792, "The Builder."

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SUPERVISOR

for

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Applications will be acknowledged.

A SENIOR resident QUANTITY SURVEYOR, age 30 to 45 and fully qualified, Required by Professional firm for branch office in West Africa. Preliminary period to be spent in London office. Accommodation, passages and transport provided for surveyor and family.—Apply, stating qualifications and experience, to Box 912, "The Builder."

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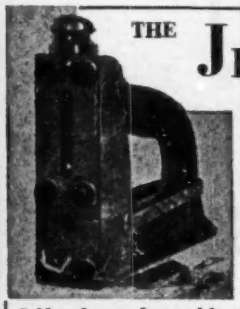

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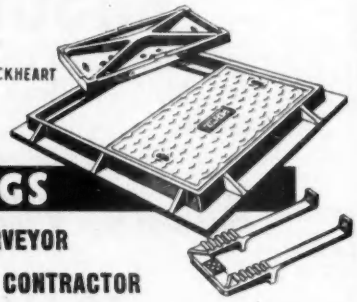

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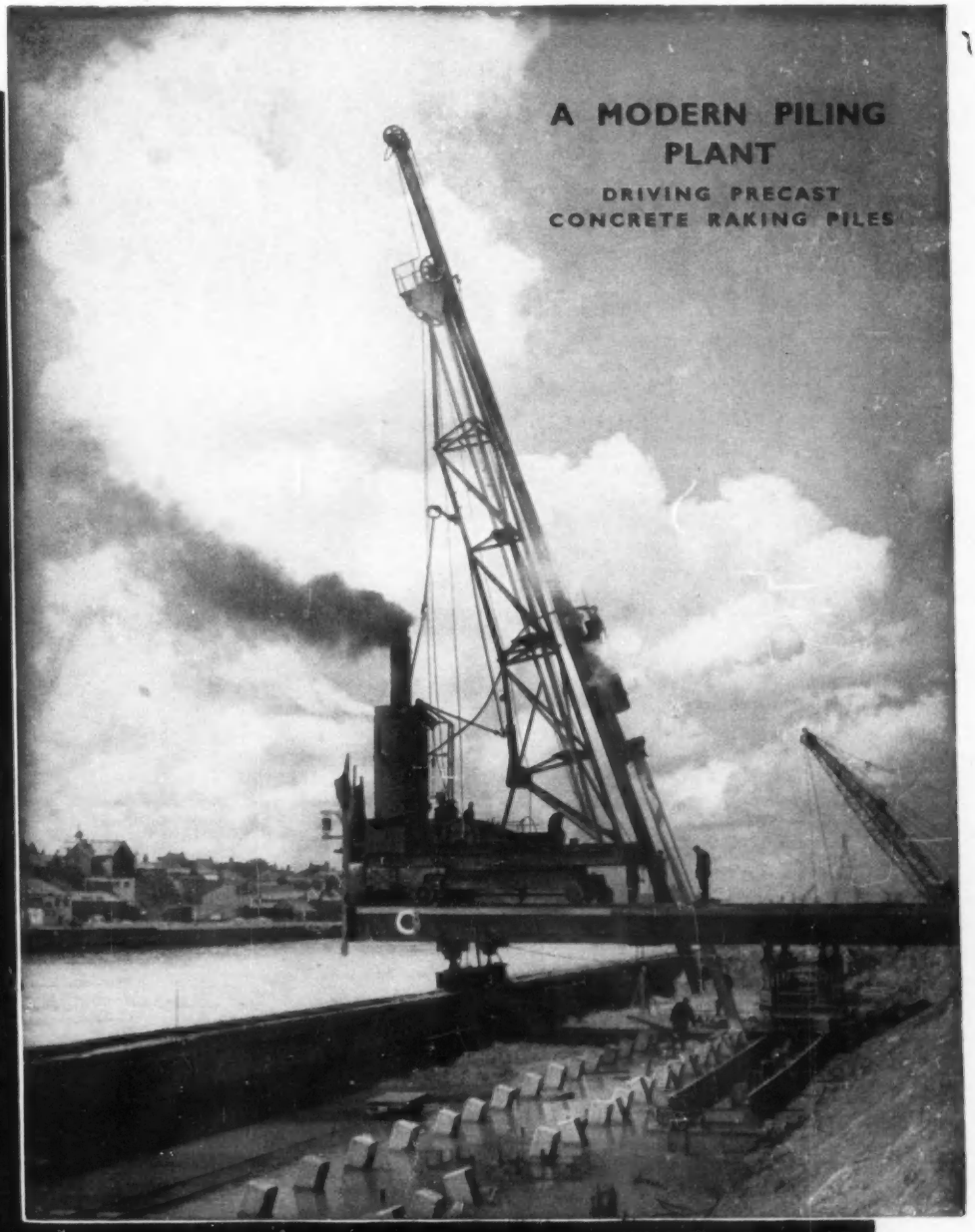

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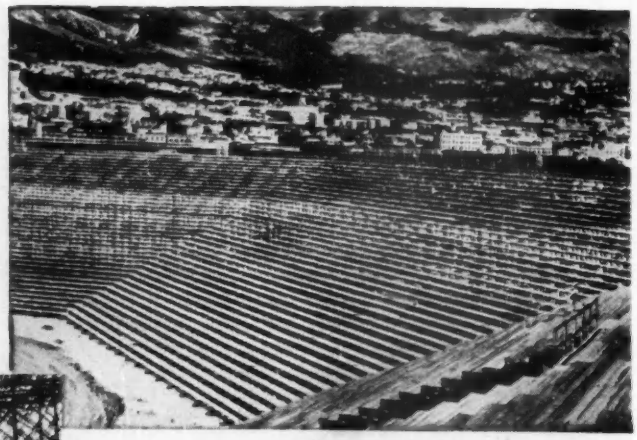

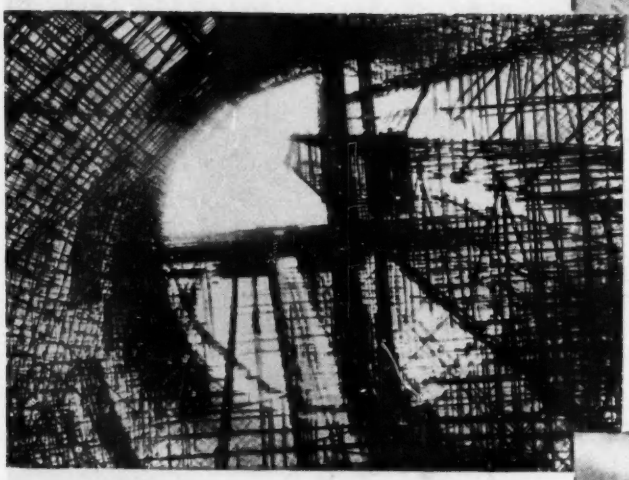

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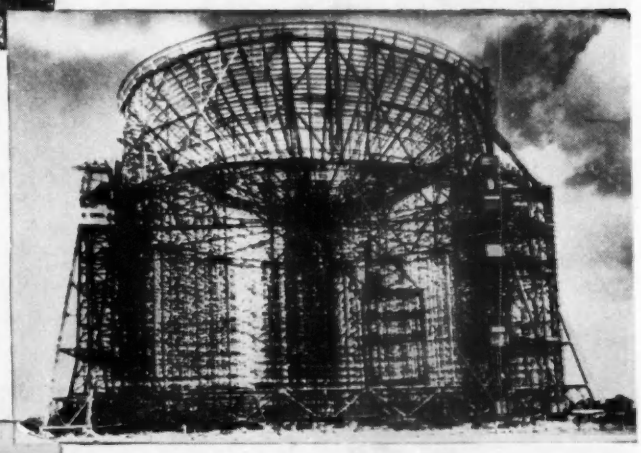

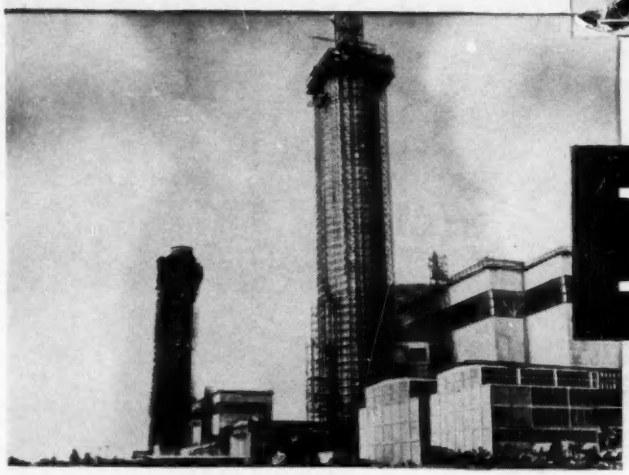

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